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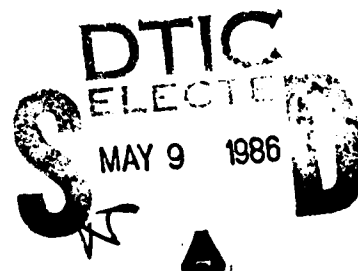
INSTITUTE REPORT NO. 217

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ACUTE ORAL TOXICITY
OF (E)-1,2,3,4-TETRAHYDRO-6-METHYL-1-(2-METHYL-1-OXO-2-BUTENYL)
QUINOLINE (CHR5) IN MALE AND FEMALE RATS

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AND TOXICOLOGY



MARCH 1986

Toxicology Series 90

LETTERMAN ARMY INSTITUTE OF RESEARCH
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Acute Oral Toxicity of (E)-1,2,3,4 tetrahydro-6-methyl-1-(2-methyl-1-oxo-2-butenyl) quinoline (CHR5) in Male and Female Rats (Toxicology Series 90)--Morgan, Hiatt, Lewis, and Korte


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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The acute oral toxicity of (E)-1,2,3,4-tetrahydro-6-methyl-1-(2-methyl-1-oxo- 2-butenyl) Quinoline (CHR5) was determined in Sprague-Dawley rats by using the oral gavage single-dose method. The LD50 was 2.73 g/kg for male rats and 2.22 g/kg for female rats. CHR5 produces a syndrome of general malaise and appears to target the upper gastrointestinal tract and the central nervous system. The predominate GI sign was increased salivation. CNS signs included loss of equilibrium, twitching, tremors, hypotonia, and depression of the grasping, pinch, pull, and righting reflexes. <i>Regu...</i>		

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ABSTRACT

The acute oral toxicity of (E)-1,2,3,4-tetrahydro-6-methyl-1-(2-methyl-1-oxo-2-butenyl) quinoline (CHR5) was determined in Sprague-Dawley rats by using the oral gavage single-dose method. The LD₅₀ was 2.73 g/kg for male rats and 2.22 g/kg for female rats. CHR5 produces a syndrome of general malaise and appears to target the upper gastrointestinal tract and the central nervous system. The predominant GI sign was increased salivation. CNS signs included loss of equilibrium, twitching, tremors, hypotonia, and depression of the grasping, pinch, pull, and righting reflexes.

KEY WORDS: Acute Oral Toxicity, Insect Repellent, Toxicology,
(E)-1,2,3,4-Tetrahydro-6-Methyl-1-Oxo-2-Butenyl)
Quinoline, Rats

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PREFACE

TYPE REPORT: Acute Oral Toxicity GLP Study Report

TESTING FACILITY: US Army Medical Research and Development Command
Letterman Army Institute of Research
Presidio of San Francisco, CA 94129-6800

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WORK UNIT: Development of Repellents vs. Medically Important
Anthropods, WU 145, APC FL05

GLP STUDY NUMBERS: 83016 and 84016

STUDY DIRECTOR: MAJ Don W. Korte Jr, PhD, MSC

PRINCIPAL INVESTIGATOR: CPT Earl W. Morgan, DVM, VC
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DATA MANAGER: Carolyn M. Lewis, MS

REPORT AND DATA MANAGEMENT: A copy of the final report, study
protocol, retired SOPs, raw data,
analytical, stability, and purity data of
the test compound, tissues, and an
aliquot of the test compound will be
retained in the LAIR Archives.

TEST SUBSTANCE: (E)-1,2,3,4-Tetrahydro-6-Methyl-1-(2-Methyl-1-Oxo-2-
Butenyl) Quinoline (CHR5)

INCLUSIVE STUDY DATES: 18 November - 16 December 1983
25 April - 16 May 1984


OBJECTIVE: The objective of this study was to determine the acute
oral toxicity of CHR5 in male and female Sprague-Dawley
rats.


ACKNOWLEDGMENTS

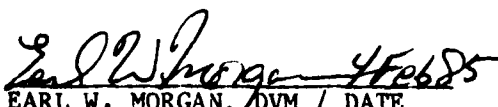
The authors wish to thank SP5 Thomas P. Kellner, BS; SP5 Lawrence Mullen, BS; SP4 Paul Mauk, BS; Valerie Coppes, BS, Edward Sands, Susan Hernandez, Roosevelt Cunningham, and Rick Katona for their assistance in performing this research.

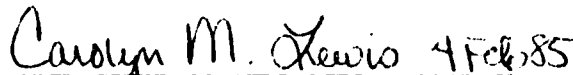
SIGNATURES OF PRINCIPAL SCIENTISTS AND MANAGERS INVOLVED IN THE STUDY


We the undersigned, declare that GLP Study 83016 and 84016, was performed under our supervision, according to the procedures described herein, and that this report is an accurate record of the results obtained.

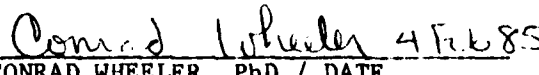
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9 January 1986

MEMORANDUM FOR RECORD

SUBJECT: Report of GLP Compliance

1. I hereby certify that in relation to LAIR GLP Studies 83016 and 84016 the following inspections were made:

GLP Study 83016:

29 November 1983

30 November 1983

GLP Study 84016:

30 April 1984

3 May 1984

14 May 1984

2. The reports and raw data for these studies were audited on 10 October 1985



GARY L. DUTCHER
SSG, USA
Quality Assurance Unit

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Acute Oral Toxicity of (E)-1,2,3,4-Tetrahydro-6-Methyl-1-(2-Methyl-1-Oxo-2-Butenyl) Quinoline (CHR5) in Male and Female Rats--Morgan et al

The goal of the insect repellent program is to develop better insect repellents for the protection of soldiers from insects and insect-borne diseases in the field. In the last several years the Division of Cutaneous Hazards, Letterman Army Institute of Research (LAIR), has tested a large number of chemical compounds, submitted by SRI International, the US Department of Agriculture (USDA), and private industry, against a variety of mosquitoes, sand flies, fleas, ticks, and mites in both in vitro and in vivo test systems. Several of these materials have shown sufficient repellent activity and persistence on the skin of animals to warrant consideration for use in lieu of, or in conjunction with, the current troop-issue insect repellent, 71.25% N,N-diethyl-m-toluamide (m-DEET) in ethanol. One of these new formulations, (E)-1,2,3,4-tetrahydro-6-methyl-1-(2-methyl-1-oxo-2-butenyl) quinoline (CHR5), was more persistent than the current troop-issue repellent in efficacy tests on animals and was therefore submitted for pre-clinical toxicity testing.

Objective of Study

The objective of this study was to determine the acute oral toxicity of CHR5 in male and female Sprague-Dawley rats.

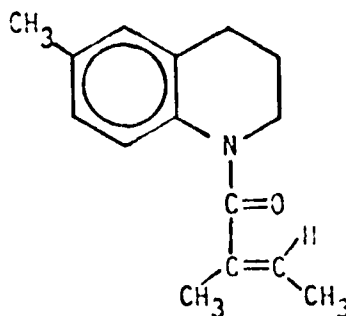
MATERIALS

Test Substance

Chemical name: (E)-1,2,3,4-Tetrahydro-6-Methyl-1-(2-Methyl-1-Oxo-2-Butenyl) Quinoline (CHR5)

Chemical Abstract Service Registry No.: None

Molecular structure:



Molecular formula: $C_{15}H_{19}NO$

The test compound was supplied through Mr. L. Rutledge, Division of Cutaneous Hazards, Letterman Army Institute of Research from a sample he received from Starks Associates Inc., Buffalo, NY. The test chemical was refrigerated when not in use. Other test substance information is presented in Appendix A.

Vehicle

None

Animal Data

Sixty-six male and 53 female Sprague-Dawley rats (Bantin Kingman, Fremont, CA) were studied. They were identified individually with ear tags numbered 83D00632 - 83D00697 and 84D00917 - 84D00969 inclusive. Two males and 2 females were selected for quality control necropsy evaluation at receipt. The male weights on receipt (18 November 1983) ranged from 126 to 170 g. The female weights on receipt (25 April 1984) ranged from 125 to 179 g. Additional animal data appear in Appendix B.

Husbandry

Rats were caged individually in stainless steel wire mesh cages in racks equipped with automatically flushing dumptanks. No bedding was used in any of the cages. The diet, fed ad libitum, consisted of Certified Purina Rodent Chow Diet 5002 (Ralston Purina Company, Checkerboard Square, St. Louis, MO); water was provided by continuous drip from a central line. The male room temperature was maintained in a range from 21.2°C to 22.2°C with a relative humidity range of 40 to 60 percent with two spikes to 88 percent. The female room temperature was maintained in a range from 22.8°C to 25°C with a relative humidity range of 40 to 56 percent. The photoperiod was 12 hours of light per day.

METHODS

Group Assignment/Acclimation

Study rats were randomized into 6 dose groups of 9 males, 5 dose groups of 10 females, and a cage control group of 5 males. Allocation was accomplished by using a computer-based stratified, weight-biased method. The Beckman TOXSYS Animal Allocation Program was used in conjunction with a Beckman TOXSYS Data Collection Terminal. The males were acclimated for 11 days and the females for 7 days before the day of dosing. During this period they were observed daily for signs of illness. The males were acclimated to dosing by performing practice oral sterile gavage once during the quarantine period. Observation of the males indicated that this procedure alerted the animals and made

them wary and difficult to handle during the actual dosing. Therefore this procedure was eliminated for the females.

Dosage Levels

Dose levels were based upon preliminary LD₅₀ studies (GLP Study 82018 and GLP Study 83007) conducted by this laboratory in June 1982 and October 1983. Table 1 lists the selected dose levels. The Group 6 (males) dose level was selected based on the preliminary results of Groups 1 to 5. These animals were dosed 2 days after the others.

Table 1
CHR5 Dosages

<u>Group</u>	<u>Dosage Level</u>	
	gm/kg	
	<u>Males</u>	<u>Females</u>
1	2.0	1.78
2	3.0	2.37
3	4.0	3.16
4	5.0	4.22
5	6.0	5.62
6	1.0	
7 (cage control)		

Compound Preparation

At room temperature CHR5 is a soft white powder soluble in organic solvents such as ethanol. Since it melts between 37.0 and to 37.5°C, CHR5 was administered to the animals as a liquid by maintaining it at a temperature of 40 to 42°C during dosing.

Chemical Analysis of Dosing Solution

Since dosing of the animals required that the CHR5 be maintained as a liquid for one hour, a stability analysis of the liquified test compound was performed. A sample of the compound was incubated at 40°C for 16 hours. Samples removed before and after incubation were analyzed by gas chromatography (GC) and infrared spectroscopy (IR).

Identical GC retention times and IR spectra demonstrated that decomposition does not occur under these conditions (LAIR Laboratory Notebook No. 84-05-010.1, p 49).

Test Procedures

This study was conducted in accordance with EPA guidelines (1) and LAIR SOP OP-STX-36 (2).

The volume of dosing solution each animal received was based upon the desired dose level, and the animals weight. The dose level was increased volumetrically. Volumes ranged from 0.20 to 1.47 ml in the males and 0.25 to 1.06 ml females. The cage control group was untreated. Dosing was performed by the oral gavage method without animal sedation or anesthesia. Sterile disposable syringes (Becton, Dickenson & Co, Rutherford, NJ) fitted with 16-gauge, 3-inch, ball-tipped feeding tubes (Popper & Sons, Inc., New Hyde Park, NY) were utilized. All males, except Group 6, were dosed between 0845 and 0945 hours on 30 November 1983. Group 6 males were dosed between 0859 and 0909 hours on 2 December 1983. All females were dosed between 0840 and 0952 on 2 May 1984.

Observations

Observations for mortality and signs of acute toxicity were performed daily according to the following procedure: (a) animals were observed undisturbed in their cages, (b) animals were removed from their cages and given a physical examination, and (c) animals were observed after being returned to their cages. On the day of dosing, the rats were checked intermittently throughout the day. Recorded observations were performed 1, 2, and 4 hours after dosing and daily for the remainder of the 2-week test period. A second "walk through" observation was performed daily with only significant observations recorded. Body weights were recorded twice weekly for the males and weekly for the females during the course of the studies.

Necropsy

Animals that died during the observation period were submitted for a complete gross necropsy. Those which survived the 14-day study period were submitted for necropsy immediately after sacrifice by barbiturate overdose.

Statistical Analysis

Statistical analyses were performed on the study results. The LD₁₀, LD₅₀, and LD₉₀ were derived by probit analysis, according to the maximum likelihood method as described by Finney (3). The program, PROBIT, developed for the Data General Computer, Model MV8000, was used to determine the probit curve and lethal dose values.

Duration of Study

Appendix C is a complete listing of historical events.

Changes/Deviations

The dosing phase of this study was accomplished according to the protocol and applicable amendments with two exceptions. Since Group 6 males were dosed 2 days after the other groups, the sacrificing of this group was correspondingly delayed 2 days to allow 2 full weeks for the after-dosing observations. Secondly, the cage controls were not weighed on Day 0. Since these animals were not dosed, the weighing was inadvertently overlooked. This change had no effect on the study.

Raw Data and Final Report Storage

A copy of the final report, study protocols, raw data, retired SOPs, and an aliquot of the test compound will be retained in the LAIR Archives.

RESULTS

Mortality

Twenty-two (34%) of the deaths occurred between 4 and 11 hours after dosing. Forty-one (63%) of the deaths occurred between 12 and 23 hours after dosing. The remaining two animals were found dead on the morning of the second day (between 36 and 47 hours after dosing). Table 2 lists the compound related deaths by group and the percent mortality. Appendix D is a tabular presentation of cumulative mortality.

Table 2
Compound Related Deaths by Group

MALE GROUP	Dose Level gm/kg	Compound Related Death/ Number in Group	Percent Mortality
6	1.0	0/9	0
1	2.0	2/9	22
2	3.0	4/7*	57
3	4.0	8/8*	100
4	5.0	7/9	78
5	6.0	9/9	100
7	Cage Control	0/5	0
FEMALE GROUP			
1	1.78	3/10	30
2	2.37	6/10	60
3	3.16	8/10	80
4	4.22	8/10	80
5	5.62	10/10	100

*Reduced numbers in groups were due to one or more misdosed animals which were excluded from statistical analysis and removed from the study.

Lethal Dose Calculations

Lethal dose values were calculated by probit analysis and the equation for the probit regression line was: $Y = 2.58 + 5.54 \log X$ for males and $Y = 3.44 + 4.50 \log X$ for females, where X is the dose and Y the corresponding probit value. Misdosed animals were excluded from statistical analysis and eliminated from the study. Lethal doses calculated from the equation for the probit regression line are presented in Table 3. Figures 1 and 2 graphically present the actual data points and the regression line.

Table 3

Calculated Lethal Doses (LD) of CHR5

	Effect Level	Dose (g/kg)	95% Confidence Limits (g/kg)
MALES			
	LD ₁₀	1.61	(0.95, 2.70)
	LD ₅₀	2.73	(2.10, 3.56)
	LD ₉₀	4.66	(3.25, 6.67)
FEMALES			
	LD ₁₀	1.15	(0.40, 2.90)
	LD ₅₀	2.22	(1.56, 3.17)
	LD ₉₀	4.28	(2.52, 7.27)

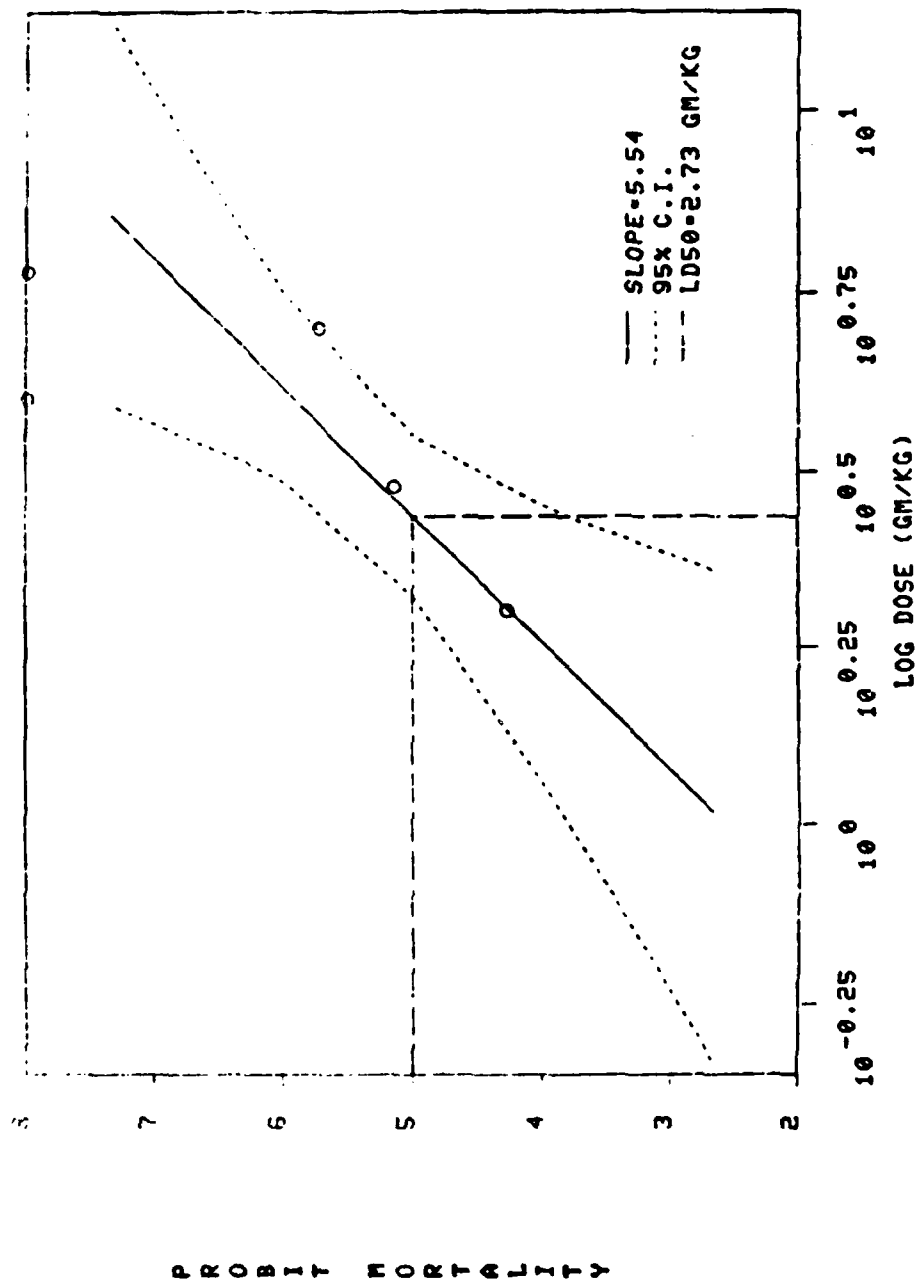


FIGURE 1 - DOSE RESPONSE CURVE - CHR5 in Male SD Rats

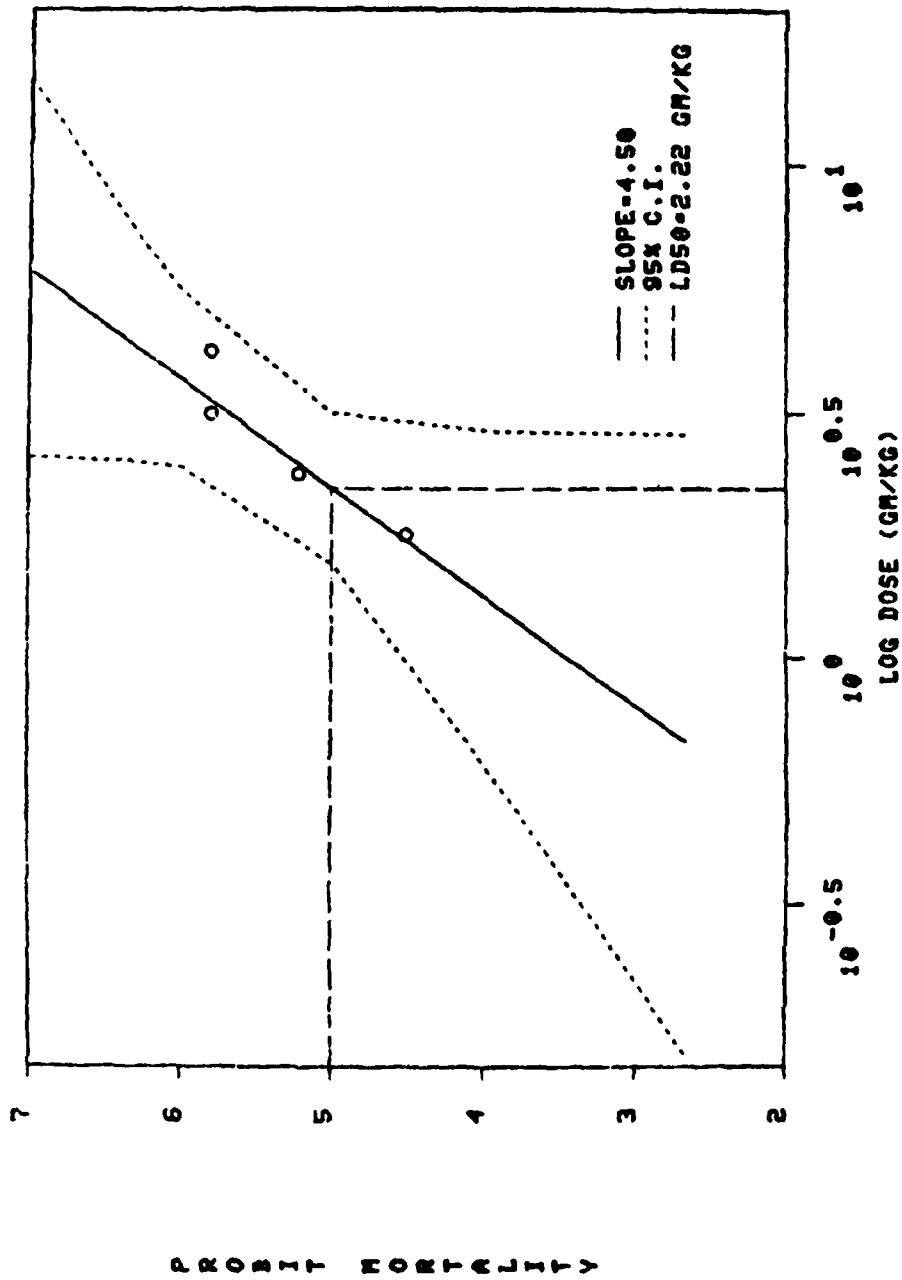


FIGURE 2 - DOSE RESPONSE CURVE - CHR5 in Female SD Rats

Clinical Observations

The clinical signs associated with CHR5 administration could be grouped into three general categories, gastrointestinal (GI), central nervous system (CNS), and general malaise. GI symptoms (74 of 101 animals dosed) included increased salivation/staining of muzzle (69 of 101) and diarrhea (15 of 101). CNS symptoms (55 of 101) included loss of equilibrium/staggering, twitching, tremors, hypotonia, and depression of the grasping, pinch, pull, and righting reflexes. All animals, with the exception of one high-dose female (84D00942) moribund at the 1-hour observation, exhibited signs of general malaise. Symptoms included in this category were inactivity (79 of 101), hunched posture (88 of 101), rough or dirty coat (69 of 101), and irritability (15 of 101). However, there was no recognizable dose-response relationship among the recorded clinical observations. With the exception of Group 6 males, clinical signs were present at the same frequency in all dosed groups.

The development of a mild upper respiratory infection in the males during the second week of the study accounted for the majority of the respiratory signs recorded. The respiratory signs were: changes in respiratory rate, depth, and/or rhythm (24 of 101), and nasal and/or ocular discharges (24 of 101). Twelve of the 21 surviving males had developed slight nasal and/or ocular discharges by the conclusion of the study.

Urinary staining of the perineum and ventral surfaces were noted in 25 of the 50 females dosed. Tables 4 and 5 contain a summary of clinical observations. Appendix E contains individual animal histories.

Weight gains of survivors were not significantly affected by dosing. Table 6 presents the mean body weights by groups. Appendix F contains individual weight tables.

Table 4
Incidence Summary for Clinical Observations in Male Rats administered CHR5

Clinical Signs	Group	6	1	2	3	4	5	7
	Dose g/kg	1.0	2.0	3.0	4.0	5.0	6.0	Control
	(n=)	9	9	7	8	9	9	5
Respiratory*		0	5	6	3	4	2	0
Gastrointestinal†		1	7	6	8	9	7	0
Central Nervous System†		0	5	2	6	5	5	0
Rough Coat		5	7	6	7	9	9	1
Discharge, nasal and/or ocular		7	4	3	2	3	1	0
Hunched posture		9	7	5	6	9	9	0
Irritable		0	1	2	3	1	4	0
Inactive		7	8	7	8	9	9	0

* Includes changes in rate, depth and rhythmicity.

† Includes increased salivation, mouth stains, diarrhea and perianal staining.

‡ Includes loss of equilibrium/staggering, hypotonia, hyperactivity, tremors/twitching and depression of grasping, pinch, pull and righting reflexes.

Table 5

Incidence Summary for Clinical Observations in Female Rats administered CHR5

Clinical Signs	Group	1	2	3	4	5
Dose g/kg		1.78	2.37	3.16	4.22	5.62
(n=)		10	10	10	10	10
Respiratory [*]		0	0	1	2	1
Gastrointestinal [†]		6	8	8	8	6
Central Nervous System [†]		5	6	6	6	9
Rough Coat		5	4	5	5	7
Discharge, nasal and/or ocular		2	0	0	1	1
Hunched posture		7	9	9	9	9
Irritable		1	1	1	1	0
Inactive		5	4	6	8	8
Urine stains		4	6	6	5	4

^{*} Includes changes in rate, depth and rhythmicity.[†] Includes increased salivation, mouth stains diarrhea, and perianal staining.^{††} Includes loss of equilibrium/staggering, hypotonia, hyperactivity tremors/twitching and depression of grasping, pinch, pull and righting reflexes.

Table 6

Mean Body Weights In Grams \pm S.E.*

Dose mg/kg	Receipt	Day 0	Day 6 [†]	Day 14
MALE				
1	150.2 \pm 3.43	226.9 \pm 5.75 (9)	286.4 \pm 7.42 (9)	293.9 \pm 7.47 (9)
2	156.0 \pm 2.61	225.1 \pm 6.15 (9)	258.4 \pm 10.05 (7)	274.9 \pm 10.64 (7)
3	153.2 \pm 4.28	229.4 \pm 5.50 (9)	272.7 \pm 9.33 (3)	287.3 \pm 10.59 (3)
4	153.4 \pm 3.07	224.6 \pm 4.40 (9)		
5	151.6 \pm 4.06	225.9 \pm 5.24 (9)	270.5 \pm 0.50 (2)	298.5 \pm 0.50 (2)
6	152.1 \pm 3.37	222.1 \pm 5.04 (9) [†]		
Cage Control	155.8 \pm 2.85	250.6 \pm 2.95 (5) [†]	275.6 \pm 3.72 (5)	286.6 \pm 5.78 (5)
FEMALE				
	146.7 \pm 4.08	161.7 \pm 3.80 (10)	200.3 \pm 4.33 (7)	191.0 \pm 4.76 (7)
	150.8 \pm 2.84	167.0 \pm 3.60 (10)	203.3 \pm 6.94 (4)	193.0 \pm 9.25 (4)
	152.1 \pm 3.04	167.3 \pm 3.04 (10)	204.0 \pm 20.00 (2)	215.0 \pm 19.00 (2)

Gross Pathological Observations

The mortalities which occurred after dosing appear to have been caused by the test compound. Test-related lesions were found only in the digestive system. The veterinary pathologist's report appears in Appendix G.

DISCUSSION

The calculated LD₅₀ for CHR5 was 2.73 g/kg in male Sprague-Dawley rats and 2.22 g/kg in female Sprague-Dawley rats. These LD₅₀ values are within the slightly toxic range (4).

Clinical signs indicated CHR5 produces a syndrome of general malaise. The specific signs were inactivity, rough or dirty hair coat, hunched posture, and irritability. The compound also appeared to target the gastrointestinal tract and the central nervous system. It affected primarily the upper GI tract with increased salivation being the major sign. This was consistent with necropsy findings that the predominate lesions involved the upper GI tract. CNS signs included loss of equilibrium or staggering, twitching, tremors, hypotonia, and depression of the grasping, pinch, pull, and righting reflexes.

CONCLUSION

CHR5 is a "slightly toxic" compound that produces a general malaise and specific effects on the CNS and GI tract. Calculated LD₅₀ values were 2.73 g/kg in male Sprague-Dawley rats and 2.22 g/kg in female Sprague-Dawley rats.

REFERENCES

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3. Finney DJ. Probit analysis. 3rd ed. Cambridge: Cambridge University Press, 1971:20-80.
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Appendices

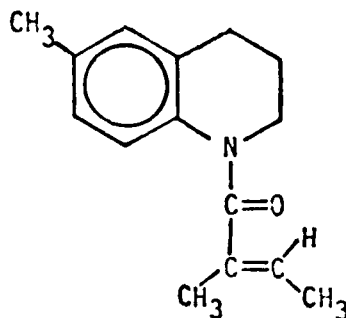
CHEMICAL DATA

Chemical Name: (E)-1,2,3,4-Tetrahydro-6-Methyl-1(2-Methyl-1-Oxo-2-Butenyl) Quinoline (CHR5)

Code Name: (CHR5)

Chemical Abstract Service Registry No.: None

Structural formula:



Molecular formula: C₁₅H₁₉NO

Molecular weight: 229

pH: Non-Aqueous

Physical state: White crystalline solid

Stability: Unknown but presumed to be stable at room temperature

Melting point: 37 - 37.5°C

Compound density: Determined to be 0.99 gm/ml

Name of contaminants and percentages: Unknown

Manufacturer: Starks Associates, Inc
1280 Niagara Street
Buffalo, New York 14213

Lot No.: 0205

Analytical data/purity: Infrared spectrophotometries were performed on 3 January 1984 and 17 May 1984 and were identical with previous IRs performed at LAIR. Major peaks in the IR spectrum were observed at 2940 (broad), 1635, 1500, 1370, 1265, 1200, 1160, 820, and 740 cm⁻¹.

ANIMAL DATA

Species: Rattus norvegicus

Strain: Sprague-Dawley

Source: Bantin Kingman
Fremont, CA

Sex: Male and female.

Date of birth: Male: 7 October 1983
Female: 14 March 1983

Method of randomization: Weight bias, stratified animal allocation

Animals in each group: 9 male and 10 female animals
5 males for control group

Condition of animals at start of study: Normal

Body weight range at dosing: 139-252 g

Identification procedures: Ear tag, tag numbers between 83D00632 to
83D00697 and 84D00917 to 84D00969
inclusive.

Retest conditioning: Quarantine/acclimation 18 November-29 November
1983 for males and 25 April-1 May 1984 for
females.

Justification: The laboratory rat has proven to be a sensitive and
reliable system for lethal dose determination.

HISTORICAL LISTING OF STUDY EVENTS

MALES

<u>Date</u>	<u>Event</u>
18 Nov 83	Received 66 male Sprague-Dawley rats. Rats were checked for physical condition, sexed, weighed, ear-tagged, and individually caged.
19 Nov 83	Two rats were submitted for necropsy quality control.
19-29 Nov 83	Animals were observed daily.
29 Nov 83	Animals weighed and randomized into dose groups.
30 Nov 83	Group 2-5 animals weighed, dosed, and observed at 1, 2 and 4 hours after dosing.
2 Dec 83	Group 6 animals weighed, dosed, and observed at 1,2 and 4 hours after dosing.
1-13 Dec 83	Group 1-5 animals were observed daily in AM and PM.
2,6,9, Dec 83	Group 1-5 animals weighed.
2,5,8,11 Dec 83	Group 6 animals weighed.
14 Dec 83	Group 1-5 surviving animals were weighed, observed, sacrificed, and submitted for necropsy.
16 Dec 83	Group 6 animals were weighed, observed, sacrificed, and submitted for necropsy.

HISTORICAL LISTING OF STUDY EVENTS

FEMALES

<u>Date</u>	<u>Event</u>
25 Apr 84	Received 53 female Sprague-Dawley rats. Rats were checked for physical condition, sexed, weighed, ear-tagged, and individually caged.
26 Apr 84	Two rats were submitted for necropsy quality control.
26 Apr-1 May 84	Animals were observed daily.
30 Apr 84	Animals weighed and randomized into dose groups.
2 May 84	Animals weighed, dosed, and observed at 1, 2 and 4 hours after dosing.
3-15 May 84	All animals were observed daily in AM and PM.
9 May 84	All animals weighed.
16 May 84	All surviving animals were weighed, sacrificed, and submitted for necropsy.

Cumulative Mortality Data (Deaths/Group)
Time After Dose

Dose Level g/kg	Hours											Days										
	1	2	4	11	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
MALES (n)																						
1.0 (9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 (9)	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3.0 (7)	0	0	0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4.0 (8)	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5.0 (9)	0	0	0	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6.0 (9)	0	0	0	5	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Cage Control (5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cumulative Mortality Data (Deaths/Group)
Time After Dose

Dose Level g/kg	Hours				Days													
	1	2	4	11	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FEMALES (n)																		
1.78 (10)	0	0	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2.37 (10)	0	0	0	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6
3.16 (10)	0	0	0	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4.22 (10)	0	0	0	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5.62 (10)	0	0	0	4	9	10	10	10	10	10	10	10	10	10	10	10	10	10
Total (106)	0	0	1	22	63	65	65	65	65	65	65	65	65	65	65	65	65	65

ANIMAL ID: 84000910 SPECIES: D SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/16/84	12:41:20	0084799		* NO OBSERVATIONS RECORDED.	
5/16/84	6:42:32	0035743	204.0	NORMAL	
5/15/84	6:57:58	0035743		NORMAL	
5/14/84	6:52:54	0035743		NORMAL	
5/13/84	10:11:52	0049225		NORMAL	
5/12/84	9:27:52	0049225		NORMAL	
5/11/84	6:47:18	0035743		NORMAL	
5/10/84	6:37:16	0035743		NORMAL	
5/09/84	6:52:47	0042232	209.0	NORMAL	
5/08/84	6:55:12	0042232		NORMAL	
5/07/84	6:47:28	0035743		NORMAL	
5/06/84	11:45:14	0053257		INACTIVE SLIGHT	
5/05/84	9:10:40	0045150		NORMAL	
5/04/84	6:54:42	0035743		INCREASED SALIVATION SLIGHT, MUNCHED POSTURE MODERATE	
5/03/84	7:13:52	0035743		HYPOTONIA MARKED, INACTIVE SLIGHT	
5/02/84	14:01:08	0084799		HYPOTONIA SLIGHT, INACTIVE SLIGHT	
5/02/84	11:11:06	0010186		HYPOTONIA SLIGHT, INACTIVE SLIGHT	
5/02/84	9:24:46	0035743	155.0	* NO OBSERVATIONS RECORDED.	
5/02/84	7:35:26	0055743			

ANIMAL ID: 84000930 SPECIES: D SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/16/84	12:43:46	0084799		* NO OBSERVATIONS RECORDED.	
5/16/84	6:45:20	0035743	168.0	NORMAL	
5/15/84	7:00:14	0035743		NORMAL	
5/14/84	6:53:48	0035743		NORMAL	
5/13/84	10:12:26	0049225		NORMAL	
5/12/84	9:29:06	0049225		NORMAL	
5/11/84	6:48:10	0035743		NORMAL	
5/10/84	6:38:22	0035743		NORMAL	
5/09/84	6:55:52	0042232	180.0	NORMAL	
5/08/84	6:56:48	0042232		IRRITABLE SLIGHT	
5/07/84	6:49:50	0035743		NORMAL	
5/06/84	11:46:14	0053257		NORMAL	
5/05/84	9:12:42	0045150		NORMAL	
5/04/84	9:17:42	0035743		MUNCHED POSTURE SLIGHT, RUUGH COAT SLIGHT, DIARRHEA SLIGHT	
5/03/84	12:08:30	0084799			

ANIMAL ID: 04000933 SPECIES: D SEX: FEMALE GROUP: GROUP 1

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/16/84	12:44:10	0084799	* NO OBSERVATIONS RECORDED.
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5/16/84	6:45:58	0035743	NORMAL
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5/15/84	7:00:54	0035743	NORMAL
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5/14/84	6:56:24	0035743	NORMAL
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5/13/84	10:12:38	0049225	NORMAL
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5/12/84	9:29:38	0049225	NORMAL
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5/11/84	6:48:22	0035743	NORMAL
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5/10/84	6:38:36	0035743	NORMAL
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5/09/84	6:56:42	0042232	NORMAL
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5/08/84	6:57:14	0042232	NORMAL
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5/07/84	6:50:34	0035743	NORMAL
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5/06/84	11:46:26	0033257	ROUGH COAT SLIGHT
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5/05/84	9:12:56	0045130	NORMAL
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5/04/84	6:37:50	0035743	ROUGH COAT SLIGHT, INACTIVE SLIGHT, STAIN URINE PERIANAL SLIGHT
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5/03/84	7:30:04	0035743	ROUGH COAT SLIGHT, INACTIVE SLIGHT, MYOTONIA SLIGHT, STAIN URINE PERIANAL
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5/02/84	14:17:46	0035743	MODERATE, INCREASED SALIVATION SLIGHT, MYOTONIA SLIGHT, STAIN URINE PERIANAL
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5/02/84	11:25:50	0010186	MODERATE, INCREASED SALIVATION SLIGHT, MYOTONIA SLIGHT, STAIN URINE PERIANAL
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5/02/84	9:51:44	0035743	MODERATE, INCREASED SALIVATION SLIGHT, MYOTONIA SLIGHT, STAIN URINE PERIANAL
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5/02/84	7:37:00	0035743	MODERATE, INCREASED SALIVATION SLIGHT, MYOTONIA SLIGHT, STAIN URINE PERIANAL
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5/02/84	7:37:00	0035743	* NO OBSERVATIONS RECORDED.
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ANIMAL ID: 04000934 SPECIES: D SEX: FEMALE GROUP: GROUP 1

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/03/84	6:51:52	0035743	DEATH
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5/02/84	14:18:44	0035743	MONITORING
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5/02/84	11:26:38	0084799	ROUGH COAT MODERATE, INACTIVE SLIGHT, INCREASED SALIVATION SLIGHT, STAIN URINE
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5/02/84	9:53:42	0035743	PERIANAL SLIGHT, HUNCHED POSTURE SLIGHT
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5/02/84	7:36:38	0035743	ROUGH COAT MODERATE, INACTIVE SLIGHT, INCREASED SALIVATION SLIGHT, STAIN URINE
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5/02/84	7:36:38	0035743	PERIANAL SLIGHT, HUNCHED POSTURE SLIGHT
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5/02/84	7:36:38	0035743	PERIANAL SLIGHT, HUNCHED POSTURE SLIGHT
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5/02/84	7:36:38	0035743	* NO OBSERVATIONS RECORDED.
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ANIMAL ID: 04000930 SPECIES: D SEX: FEMALE GROUP: GROUP 1

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/03/84	6:58:04	0035743	DEATH
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5/02/84	14:24:22	0035743	MONITORING, INCREASED SALIVATION SLIGHT
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5/02/84	11:52:56	0010186	INCREASED SALIVATION SLIGHT
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5/02/84	10:00:42	0035743	INCREASED SALIVATION SLIGHT
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5/02/84	7:41:34	0035743	* NO OBSERVATIONS RECORDED.
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ANIMAL ID: 84000940 SPECIES: D SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		OBSERVATIONS	
DATE	TIME	DATE	TIME
5/16/84	12:44:38	5/16/84	00:47:99
5/16/84	6:46:36	5/16/84	00:57:43
5/15/84	7:01:22	5/16/84	201.0
5/14/84	6:56:32	5/16/84	NORMAL
5/13/84	10:12:50	5/16/84	NORMAL
5/12/84	9:24:52	5/16/84	NORMAL
5/11/84	6:48:38	5/16/84	NORMAL
5/10/84	6:34:46	5/16/84	NORMAL
5/09/84	6:57:22	5/16/84	NORMAL
5/08/84	6:57:40	5/16/84	NORMAL
5/07/84	6:50:58	5/16/84	NORMAL
5/06/84	11:46:40	5/16/84	NORMAL
5/05/84	9:13:36	5/16/84	NORMAL
5/04/84	6:58:22	5/16/84	NORMAL
5/03/84	7:31:26	5/16/84	NORMAL
5/02/84	14:27:10	5/16/84	NORMAL
5/02/84	11:35:46	5/16/84	NORMAL
5/02/84	10:04:20	5/16/84	NORMAL
5/02/84	7:43:42	5/16/84	NORMAL

ANIMAL ID: 84000943 SPECIES: D SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		OBSERVATIONS	
DATE	TIME	DATE	TIME
5/16/84	12:45:04	5/16/84	00:47:99
5/16/84	6:47:16	5/16/84	00:57:43
5/15/84	7:01:46	5/16/84	201.0
5/14/84	6:56:38	5/16/84	NORMAL
5/13/84	10:13:02	5/16/84	NORMAL
5/12/84	9:30:04	5/16/84	NORMAL
5/11/84	6:46:46	5/16/84	NORMAL
5/10/84	6:38:56	5/16/84	NORMAL
5/09/84	6:58:06	5/16/84	NORMAL
5/08/84	6:58:00	5/16/84	NORMAL
5/07/84	6:51:24	5/16/84	NORMAL
5/06/84	11:46:48	5/16/84	NORMAL
5/05/84	9:13:46	5/16/84	NORMAL
5/04/84	6:58:48	5/16/84	NORMAL
5/03/84	7:33:50	5/16/84	NORMAL
5/02/84	14:50:40	5/16/84	NORMAL
5/02/84	11:59:14	5/16/84	NORMAL
5/02/84	10:08:06	5/16/84	NORMAL
5/02/84	7:45:10	5/16/84	NORMAL

ANIMAL ID: 84000949 SPECIES: U SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		OBSERVATIONS	
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/16/84	12:46:10	0084799	* NO OBSERVATIONS RECORDED.
5/16/84	6:52:54	0035743	NORMAL
5/15/84	7:03:02	0035743	NORMAL
5/14/84	6:57:06	0035743	NORMAL
5/13/84	10:13:42	0049225	NORMAL
5/12/84	9:31:30	0049225	NORMAL
5/11/84	6:49:16	0035743	NORMAL
5/10/84	6:59:24	0035743	NORMAL
5/09/84	7:00:10	0042232	NORMAL
5/08/84	6:59:10	0042232	NORMAL
5/07/84	6:52:44	0035743	NORMAL
5/06/84	11:47:18	0053257	PROSTRATE
5/05/84	9:14:54	0084799	NORMAL
5/04/84	7:00:10	0035743	STAIN URINE PERIANAL SLIGHT
5/03/84	7:39:30	0035743	MUNCHED POSTURE MODEKATE, STAIN URINE PERIANAL SLIGHT
5/02/84	14:37:52	0035743	MUNCHED POSTURE MODEKATE, STAIN URINE PERIANAL SLIGHT
5/02/84	11:48:10	0010186	MUNCHED POSTURE MODEKATE, STAIN URINE PERIANAL SLIGHT
5/02/84	10:18:14	0035743	* NO OBSERVATIONS RECORDED.
5/02/84	7:43:52	0035743	

ANIMAL ID: 84000951 SPECIES: U SEX: FEMALE GROUP: GROUP 1

OBSERVATIONS		OBSERVATIONS	
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/16/84	12:46:46	0084799	* NO OBSERVATIONS RECORDED.
5/16/84	6:53:34	0035743	NORMAL
5/15/84	7:03:26	0035743	NORMAL
5/14/84	6:57:18	0035743	NORMAL
5/13/84	10:13:52	0049225	NORMAL
5/12/84	9:31:48	0049225	NORMAL
5/11/84	6:49:26	0035743	NORMAL
5/10/84	6:59:38	0035743	NORMAL
5/09/84	7:00:52	0042232	NORMAL
5/08/84	6:59:44	0042232	NORMAL
5/07/84	6:53:06	0035743	NORMAL
5/06/84	11:47:44	0053257	NORMAL
5/05/84	9:15:22	0045130	NORMAL
5/04/84	7:00:32	0035743	NORMAL
5/03/84	7:40:38	0035743	NORMAL
5/02/84	14:38:56	0010186	MUNCHED POSTURE SLIGHT
5/02/84	11:49:36	0010186	HYPERACTIVE SLIGHT, MUNCHED POSTURE SLIGHT
5/02/84	10:18:26	0035743	* NO OBSERVATIONS RECORDED.
5/02/84	7:47:18	0035743	

ANIMAL ID: 84000469 SPECIES: 0 SEX: FEMALE GROUP: GROUP 1
 OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR	(GRAMS)	CLINICAL OBSERVATIONS
5/03/84	11:34:04	0035743		DEATH
5/03/84	7:45:46	0035743		MORIBUND
5/02/84	14:53:28	0035743		MORIBUND, TWITCHING MODERATE
5/02/84	12:08:50	0010186		HUNCHED POSTURE MODERATE, HYPOTUNIA MARKED, DEPRESSED RIGHTING REFLEX MARKED
5/02/84	10:42:04	0035743		HUNCHED POSTURE MODERATE

ANIMAL ID: 84000917 SPECIES: D SEX: FEMALE GROUP: GROUP 2

DATE	TIME	WEIGHT (GRAMS)	OPERATOR	CLINICAL OBSERVATIONS
5/16/84	12:58:10		0084799	* NO OBSERVATIONS RECORDED.
5/16/84	6:41:44	206.0	0035743	NORMAL
5/15/84	6:57:22		0035743	NORMAL
5/14/84	6:52:04		0035743	NORMAL
5/13/84	10:11:18		0049225	NORMAL
5/12/84	9:27:26		0049225	NORMAL
5/11/84	6:47:04		0035743	NORMAL
5/10/84	6:37:02		0035743	NORMAL
5/09/84	6:51:58	210.0	0042232	NORMAL
5/08/84	6:54:50		0042232	NORMAL
5/07/84	6:45:16		0035743	IRRITABLE SLIGHT
5/06/84	11:44:42		0035257	ROUGH COAT SLIGHT
5/05/84	9:09:58		0045130	ROUGH COAT SLIGHT
5/04/84	6:53:48		0035743	MUNCHED POSTURE SLIGHT, ROUGH COAT SLIGHT
5/03/84	7:11:12		0035743	INCREASED SALIVATION SLIGHT, HYPERACTIVE SLIGHT
5/02/84	13:59:10		0035743	MUNCHED POSTURE SLIGHT, ROUGH COAT SLIGHT, STAIN URINE PERIANAL MODERATE,
5/02/84	11:10:24		0010186	MUNCHED POSTURE SLIGHT, ROUGH COAT SLIGHT
5/02/84	9:28:52		0035743	MUNCHED POSTURE SLIGHT
5/02/84	7:52:52	174.0	0035743	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000919 SPECIES: D SEX: FEMALE GROUP: GROUP 2

DATE	TIME	WEIGHT (GRAMS)	OPERATOR	CLINICAL OBSERVATIONS
5/16/84	12:42:22		0084799	* NO OBSERVATIONS RECORDED.
5/16/84	6:43:06	188.0	0035743	NORMAL
5/15/84	6:58:28		0035743	NORMAL
5/14/84	6:53:48		0035743	NORMAL
5/13/84	10:11:48		0049225	NORMAL
5/12/84	9:28:10		0049225	NORMAL
5/11/84	6:47:26		0035743	NORMAL
5/10/84	6:37:28		0035743	NORMAL
5/09/84	6:53:18	196.0	0042232	NORMAL
5/08/84	6:55:34		0042232	NORMAL
5/07/84	6:47:58		0035743	NORMAL
5/06/84	11:45:34		0035257	ROUGH COAT SLIGHT
5/05/84	9:10:48		0045130	ROUGH COAT SLIGHT
5/04/84	6:55:12		0035743	MUNCHED POSTURE MARKED, ROUGH COAT MODERATE, STAIN URINE PERIANAL MODERATE,
5/03/84	7:14:50		0035743	MATERIAL RED MOUTH MODERATE
5/02/84	14:02:52		0084799	ROUGH COAT SLIGHT, INCREASED SALIVATION SLIGHT, MUNCHED POSTURE SLIGHT
5/02/84	11:11:26		0010186	ROUGH COAT SLIGHT, INCREASED SALIVATION SLIGHT
5/02/84	9:30:34		0035743	MUNCHED POSTURE SLIGHT
5/02/84	7:54:02	163.0	0035743	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000926 SPECIES: D SEX: FEMALE GROUP: GROUP 2

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/02/84	18:29:00	0010186		DEATH	
5/02/84	14:11:28	0035743		MORBUND, INCREASED SALIVATION MARKED	
5/02/84	11:17:56	0010186		MORBUND, INCREASED SALIVATION MARKED	
5/02/84	9:41:26	0035743		ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, STAIN URINE PERIANAL SLIGHT, INCREASED SALIVATION SLIGHT, HYPOTONIA SLIGHT	
5/02/84	7:55:08	0035743	167.0	* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000946 SPECIES: D SEX: FEMALE GROUP: GROUP 2

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/03/84	6:58:30	0035743		DEATH	
5/02/84	14:34:00	0035743		INCREASED SALIVATION SLIGHT, INACTIVE MARKED, HYPOTONIA MARKED	
5/02/84	11:43:50	0010186		INCREASED SALIVATION SLIGHT	
5/02/84	10:11:42	0035743		NORMAL	
5/02/84	7:55:50	0035743	165.0	* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000947 SPECIES: D SEX: FEMALE GROUP: GROUP 2

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/16/84	12:45:32	0084799		* NO OBSERVATIONS RECORDED.	
5/16/84	6:51:36	0035743	169.0	NORMAL	
5/15/84	7:02:14	0035743		NORMAL	
5/14/84	6:56:46	0035743		NORMAL	
5/13/84	10:13:16	0049225		NORMAL	
5/12/84	9:30:20	0049225		NORMAL	
5/11/84	6:48:58	0035743		NORMAL	
5/10/84	6:39:06	0035743		NORMAL	
5/09/84	6:58:52	0042232	188.0	NORMAL	
5/08/84	6:36:24	0042232		NORMAL	
5/07/84	6:51:58	0035743		NORMAL	
5/06/84	11:46:54	0053257		NORMAL	
5/05/84	9:14:00	0045130		NORMAL	
5/04/84	6:54:16	0035743		NORMAL	
5/03/84	7:35:32	0035743		STAIN URINE PERIANAL MODERATE, STAIN RED MOUTH SLIGHT	
5/02/84	14:35:34	0035743		HUNCHED POSTURE MARKED, STAIN RED MOUTH SLIGHT, STAIN URINE PERIANAL MODERATE	
5/02/84	11:44:48	0010186		HUNCHED POSTURE MODERATE, STAIN RED MOUTH SLIGHT	
5/02/84	10:12:20	0035743		HUNCHED POSTURE SLIGHT	
5/02/84	7:57:06	0035743	148.0	* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000948 SPECIES: D SEX: FEMALE GROUP: GROUP 2
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/16/84	12:45:54	0084799	* NO OBSERVATIONS RECORDED.
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5/16/84	6:52:16	0035743	NORMAL
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5/15/84	7:02:38	0035743	NORMAL
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5/14/84	6:56:58	0035743	NORMAL
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5/13/84	10:13:30	0049225	NORMAL
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5/12/84	9:30:34	0049225	NORMAL
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5/11/84	6:49:06	0035743	NORMAL
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5/10/84	6:39:14	0035743	NORMAL
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5/09/84	6:59:30	0042232	NORMAL
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5/08/84	6:58:50	0042232	NORMAL
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5/07/84	6:52:18	0035743	NORMAL
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5/06/84	11:47:08	0053257	NORMAL
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5/05/84	9:14:12	0045130	NORMAL
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5/04/84	6:59:46	0035743	NORMAL
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5/03/84	7:36:58	0084799	NORMAL
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5/02/84	14:36:40	0035743	NORMAL
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5/02/84	11:46:32	0010186	NORMAL
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5/02/84	10:13:06	0084799	NORMAL
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5/02/84	7:58:52	0035743	NORMAL
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5/02/84	176.0	0035743	NORMAL
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ANIMAL ID: 84000952 SPECIES: D SEX: FEMALE GROUP: GROUP 2
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/03/84	7:04:18	0035743	DEATH
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5/02/84	14:39:30	0035743	PROSTRATE
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5/02/84	11:50:14	0010186	MUNCHED POSTURE SLIGHT, TREMORS SLIGHT
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5/02/84	10:17:10	0035743	MUNCHED POSTURE SLIGHT
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5/02/84	8:00:32	0035743	* NO OBSERVATIONS RECORDED.
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5/02/84	185.0	0035743	* NO OBSERVATIONS RECORDED.
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ANIMAL ID: 84000955 SPECIES: D SEX: FEMALE GROUP: GROUP 2
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
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5/03/84	7:05:30	0084799	DEATH
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5/02/84	14:41:00	0035743	PROSTRATE
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5/02/84	11:50:54	0010186	PROSTRATE
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5/02/84	10:17:44	0035743	MUNCHED POSTURE SLIGHT
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5/02/84	8:01:46	0035743	* NO OBSERVATIONS RECORDED.
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5/02/84	150.0	0035743	* NO OBSERVATIONS RECORDED.
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ANIMAL ID: 84000964 SPECIES: D SEX: FEMALE GROUP: GROUP 2

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/05/84	7:05:04	0035743	DEATH
5/02/84	14:49:04	0035743	MORIBUND
5/02/84	12:03:10	0010186	MUNCHED POSTURE SLIGHT, MATERIAL RED MOUTH SLIGHT, INACTIVE SLIGHT
5/02/84	10:36:14	0035743	MYOTONIA SLIGHT, MUNCHED POSTURE SLIGHT, MATERIAL RED MOUTH SLIGHT, INACTIVE SLIGHT
5/02/84	8:02:56	0035743	173.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000968 SPECIES: D SEX: FEMALE GROUP: GROUP 2

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	18:39:56	0010186	DEATH
5/02/84	14:53:06	0035743	MORIBUND
5/02/84	12:07:34	0010186	ROUGH COAT SLIGHT, STAIN URINE PERIANAL SLIGHT, MUNCHED POSTURE MODERATE, INACTIVE MODERATE
5/02/84	10:39:58	0035743	ROUGH COAT SLIGHT, STAIN URINE PERIANAL SLIGHT, MUNCHED POSTURE MODERATE
5/02/84	8:04:48	0035743	169.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000420					SPECIES: D					SEX: FEMALE					GROUP: GROUP 3									
DATE					TIME					OPERATOR					WEIGHT (GRAMS)					CLINICAL OBSERVATIONS				
5/16/84					12:42:48					0084799					196.0					* NO OBSERVATIONS RECORDED.				
5/16/84					6:43:44					0035743										NORMAL				
5/15/84					6:58:56					0035743										NORMAL				
5/14/84					6:54:34					0035743										NORMAL				
5/13/84					10:12:00					0049225										NORMAL				
5/12/84					9:28:26					0049225										NORMAL				
5/11/84					6:47:56					0035743										NORMAL				
5/10/84					6:37:40					0035743										NORMAL				
5/09/84					6:54:04					0042232					198.0					NORMAL				
5/08/84					6:55:54					0042232										NORMAL				
5/07/84					6:48:52					0035743										NORMAL				
5/06/84					11:45:44					0053257										NORMAL				
5/05/84					9:11:28					0045130										HUNCHED POSTURE SLIGHT				
5/04/84					5:56:08					0035743										HUNCHED POSTURE SLIGHT, HUNCHED POSTURE SLIGHT, STAIN URINE PERIANAL SLIGHT, STAIN RED MOUTH SLIGHT				
5/03/84					7:17:34					0035743										INCREASED SALIVATION SLIGHT, HUNCHED POSTURE SLIGHT, STAIN RED MOUTH SLIGHT				
5/02/84					14:04:08					0035743										SLIGHT, INACTIVE MODERATE, WHEEZING SLIGHT, STAIN RED MOUTH SLIGHT				
5/02/84					11:12:12					0010186										INCREASED SALIVATION SLIGHT, HUNCHED POSTURE SLIGHT, STAIN URINE PERIANAL SLIGHT				
5/02/84					9:31:34					0035743										INACTIVE SLIGHT, INCREASED SALIVATION SLIGHT				
5/02/84					8:06:30					0035743					167.0					* NO OBSERVATIONS RECORDED.				
ANIMAL ID: 84000922					SPECIES: D					SEX: FEMALE					GROUP: GROUP 3									
DATE					TIME					OPERATOR					WEIGHT (GRAMS)					CLINICAL OBSERVATIONS				
5/03/84					6:47:48					0035743										DEATH				
5/02/84					14:07:42					0035743										PROSTRATE				
5/02/84					11:15:04					0010186										HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, HYPOTONIA SLIGHT, STAIN URINE PERIANAL SLIGHT				
5/02/84					9:34:20					0035743										HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, HYPOTONIA SLIGHT, STAIN URINE PERIANAL SLIGHT				
5/02/84					8:07:56					0035743					167.0					* NO OBSERVATIONS RECORDED.				
ANIMAL ID: 84000931					SPECIES: D					SEX: FEMALE					GROUP: GROUP 3									
DATE					TIME					OPERATOR					WEIGHT (GRAMS)					CLINICAL OBSERVATIONS				
5/03/84					11:33:58					0035743										DEATH				
5/03/84					7:29:16					0035743										MORTUOUS				
5/02/84					14:15:58					0035743										STAIN RED MOUTH SLIGHT, HUNCHED POSTURE SLIGHT, TREMORS MODERATE, HYPOTONIA SLIGHT				
5/02/84					11:21:38					0010186										STAIN RED MOUTH SLIGHT, HUNCHED POSTURE SLIGHT				
5/02/84					9:48:54					0035743										STAIN RED MOUTH SLIGHT				
5/02/84					8:09:42					0035743					163.0					* NO OBSERVATIONS RECORDED.				

ANIMAL ID: 84000944				SPECIES: D		SEX: FEMALE	GROUP: GROUP 3
				OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS				
5/03/84	6:42:48	0035743	DEATH				
5/02/84	14:31:48	0035743	INACTIVE MODERATE, INCREASED SALIVATION SLIGHT, HYPOTONIA SLIGHT, DEPRESSED GRASPING REFLEX MODERATE, HUNCHED POSTURE SLIGHT, STAIN URINE PERIANAL SLIGHT				
5/02/84	11:39:58	0010186	INACTIVE MODERATE, INCREASED SALIVATION SLIGHT, HYPOTONIA SLIGHT, DEPRESSED GRASPING REFLEX MODERATE				
5/02/84	10:09:42	0035743	INACTIVE MARKED, INCREASED SALIVATION SLIGHT, HYPOTONIA SLIGHT, DEPRESSED GRASPING REFLEX MARKED				
5/02/84	8:10:56	0035743	171.0 * NO OBSERVATIONS RECORDED.				
ANIMAL ID: 84000945							
				SPECIES: D		SEX: FEMALE	GROUP: GROUP 3
				OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS				
5/02/84	18:32:02	0010186	DEATH				
5/02/84	14:33:16	0035743	MORTUOUS				
5/02/84	11:41:50	0084799	ROUGH COAT MODERATE, HUNCHED POSTURE SLIGHT, STAIN RED MOUTH SLIGHT				
5/02/84	10:10:50	0035743	ROUGH COAT MODERATE, HUNCHED POSTURE SLIGHT				
5/02/84	8:11:34	0035743	173.0 * NO OBSERVATIONS RECORDED.				
ANIMAL ID: 84000950							
				SPECIES: D		SEX: FEMALE	GROUP: GROUP 3
				OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS				
5/02/84	18:35:30	0010186	DEATH				
5/02/84	14:38:24	0035743	PROSTRATE				
5/02/84	11:48:44	0010186	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, MATERIAL RED MOUTH SLIGHT				
5/02/84	10:15:24	0035743	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, MATERIAL RED MOUTH SLIGHT				
5/02/84	8:12:58	0035743	185.0 * NO OBSERVATIONS RECORDED.				

ANIMAL ID: 84000956 SPECIES: D SEX: FEMALE GROUP: GROUP 3
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	7:02:34	0035743	DEATH
5/02/84	14:01:40	0035743	ROUGH COAT MODERATE, INACTIVE MARKED, HYPOTONIA MARKED, STAIN URINE PERIANAL MARKED, INCREASED SALIVATION MODERATE, DEPRESSED GRASPING REFLEX MARKED, DIARRHEA SLIGHT
5/02/84	11:52:08	0084799	ROUGH COAT MODERATE, INACTIVE MARKED, HYPOTONIA MARKED, STAIN URINE PERIANAL MARKED, INCREASED SALIVATION MODERATE, DEPRESSED GRASPING REFLEX MODERATE, DIARRHEA SLIGHT
5/02/84	10:18:28	0084799	ROUGH COAT MODERATE, INACTIVE MARKED, DEPRESSED RIGHTING REFLEX MODERATE, HYPOTONIA MARKED, STAIN URINE PERIANAL MARKED, INCREASED SALIVATION MODERATE, DEPRESSED GRASPING REFLEX MODERATE, DIARRHEA SLIGHT
5/02/84	8:13:20	0035743	162.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000957 SPECIES: D SEX: FEMALE GROUP: GROUP 3
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	18:36:50	0010186	DEATH
5/02/84	14:43:10	0035743	MONIBUND
5/02/84	11:53:50	0010186	MONIBUND
5/02/84	10:20:48	0035743	ROUGH COAT SLIGHT, MUNCHING POSTURE SLIGHT, HYPOTONIA MODERATE, INACTIVE MODERATE, SQUINTING SLIGHT
5/02/84	8:14:38	0035743	165.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000960 SPECIES: D SEX: FEMALE GROUP: GROUP 3

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/16/84	12:48:06	0084799		* NO OBSERVATIONS RECORDED.	
5/16/84	6:55:12	0035743	234.0	NORMAL	
5/15/84	7:04:58	0035743		NORMAL	
5/14/84	6:57:40	0035743		NORMAL	
5/13/84	10:14:32	0049225		NORMAL	
5/12/84	9:32:18	0049225		NORMAL	
5/11/84	6:49:48	0035743		NORMAL	
5/10/84	6:39:58	0035743		NORMAL	
5/09/84	7:02:08	0042232	238.0	NORMAL	
5/08/84	7:00:26	0042232		IRRITABLE SLIGHT	
5/07/84	6:53:50	0035743		NORMAL	
5/06/84	11:48:08	0035257		PROSTRATE	
5/05/84	9:15:46	0084799		STAIN URINE PERIANAL MARKED, ROUGH COAT MODERATE	
5/04/84	7:02:52	0035743		MUNCHED POSTURE MODERATE, IRRITABLE SLIGHT, INCREASED SALIVATION SLIGHT, STAIN	
5/03/84	7:44:28	0035743		URINE PERIANAL SLIGHT	
5/02/84	14:45:54	0035743		MUNCHED POSTURE MODERATE, IRRITABLE SLIGHT, INCREASED SALIVATION SLIGHT, STAIN	
5/02/84	11:56:58	0010186		URINE PERIANAL SLIGHT	
5/02/84	10:27:22	0035743		MUNCHED POSTURE SLIGHT, HYPOTONIA SLIGHT, INCREASED SALIVATION SLIGHT, STAIN	
5/02/84	8:15:44	0035743	181.0	URINE PERIANAL SLIGHT	
				* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000962 SPECIES: D SEX: FEMALE GROUP: GROUP 3

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/03/84	7:01:42	0035743		DEATH	
5/02/84	14:47:28	0035743		MUNCHED POSTURE MARKED, INACTIVE MARKED, INCREASED SALIVATION MODERATE, STAIN	
5/02/84	12:00:56	0010186		URINE PERIANAL MODERATE	
5/02/84	10:30:48	0035743		MUNCHED POSTURE MARKED, INACTIVE MARKED, INCREASED SALIVATION MODERATE, STAIN	
5/02/84	8:16:50	0035743	139.0	URINE PERIANAL MODERATE	
				* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000928 SPECIES: D SEX: FEMALE GROUP: GROUP 4
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/16/84	12:43:18	0084799	* NO OBSERVATIONS RECORDED.
5/16/84	6:44:34	0035743	NORMAL
5/15/84	6:59:48	0035743	NORMAL
5/14/84	6:55:20	0035743	NORMAL
5/13/84	10:12:14	0049225	NORMAL
5/12/84	9:28:54	0049225	NORMAL
5/11/84	6:47:54	0035743	NORMAL
5/10/84	6:38:12	0035743	NORMAL
5/09/84	6:55:00	0042232	NORMAL
5/08/84	6:56:24	0042232	NORMAL
5/07/84	6:49:08	0035743	NORMAL
5/06/84	11:45:58	0053257	NORMAL
5/05/84	9:11:46	0045130	IRRITABLE SLIGHT
5/04/84	6:56:38	0035743	MUNCHED POSTURE MARKED, STAIN URINE PERIANAL MARKED, STAIN RED MOUTH MARKED, HYPOTONIA SLIGHT, CHROMODACRYRHEA SLIGHT, INACTIVE SLIGHT
5/03/84	7:24:00	0035743	STAIN URINE PERIANAL MODERATE, HYPOTONIA SLIGHT, IRRITABLE SLIGHT, STAIN RED MOUTH MODERATE
5/02/84	14:12:30	0035743	STAIN URINE PERIANAL MODERATE, HYPOTONIA SLIGHT
5/02/84	11:19:04	0010186	STAIN URINE PERIANAL SLIGHT, HYPOTONIA SLIGHT
5/02/84	4:44:40	0035743	STAIN URINE PERIANAL SLIGHT, HYPOTONIA SLIGHT
5/02/84	8:10:20	0035743	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000929 SPECIES: D SEX: FEMALE GROUP: GROUP 4
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	13:57:42	0084799	DEATH
5/03/84	7:25:54	0035743	PROSTRATE, INCREASED RESPIRATION DEPTH SLIGHT, TWITCHING PERIANAL SLIGHT, STAIN URINE PERIANAL MARKED, INCREASED SALIVATION MODERATE, DECREASED TEMPERATURE SLIGHT, HYPOTONIA MARKED, LACRIMATION SLIGHT
5/02/84	14:13:42	0035743	INCREASED SALIVATION SLIGHT, STAIN URINE PERIANAL SLIGHT, HYPOTONIA MODERATE, INACTIVE MODERATE, MUNCHED POSTURE SLIGHT
5/02/84	11:19:56	0010186	INCREASED SALIVATION SLIGHT, STAIN URINE PERIANAL SLIGHT, HYPOTONIA MODERATE
5/02/84	9:45:56	0035743	INCREASED SALIVATION SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	8:19:12	0035743	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000935 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:53:36	0035743	DEATH
5/02/84	14:21:28	0035743	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INCREASED SALIVATION MODERATE, INACTIVE SLIGHT, TREMORS SLIGHT, DEPRESSED GRASPING REFLEX MODERATE
5/02/84	11:27:42	0010186	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INCREASED SALIVATION MODERATE, INACTIVE SLIGHT
5/02/84	9:50:04	0035743	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, STAIN URINE PERIANAL MODERATE, INCREASED SALIVATION MODERATE, INACTIVE SLIGHT
5/02/84	8:20:50	0035743	* NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000936 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:50:50	0035743	DEATH
5/02/84	14:22:32	0084799	TREMORS SLIGHT, DEPRESSED GRASPING REFLEX MARKED, INCREASED SALIVATION SLIGHT, HYPOTONIA MODERATE
5/02/84	11:29:06	0084799	TREMORS SLIGHT, DEPRESSED GRASPING REFLEX MARKED, INCREASED SALIVATION SLIGHT, HYPOTONIA MODERATE
5/02/84	9:57:28	0035743	TREMORS SLIGHT, HUNCHED POSTURE SLIGHT
5/02/84	8:21:58	0035743	* NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000937 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:34:58	0035743	DEATH
5/02/84	14:23:18	0035743	MOUTHOUND, HEEZING SLIGHT, INCREASED SALIVATION SLIGHT
5/02/84	11:31:30	0010186	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INCREASED SALIVATION SLIGHT, INACTIVE SLIGHT
5/02/84	9:59:56	0035743	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INCREASED SALIVATION SLIGHT
5/02/84	8:23:20	0035743	* NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000941 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	14:26:42	0035743	DEATH
5/02/84	11:37:08	0010186	PROSTRATE
5/02/84	10:05:16	0084799	ROUGH COAT MARKED, INCREASED SALIVATION MARKED, HYPOTONIA MARKED, INACTIVE MARKED, STAIN URINE PERIANAL SLIGHT, DEPRESSED KIGHTING REFLEX MARKED, DEPRESSED GRASPING REFLEX MARKED, DEPRESSED PINCH REFLEX MARKED
5/02/84	8:24:22	0035743	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000958 SPECIES: 0 SEX: FEMALE GROUP: GROUP 4

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
5/16/84	12:47:04	0084799			* NO OBSERVATIONS RECORDED.
5/16/84	6:54:38	0035743	206.0		NORMAL
5/15/84	7:04:32	0035743			NORMAL
5/14/84	6:57:28	0035743			NORMAL
5/13/84	10:14:22	0049225			NORMAL
5/12/84	9:32:08	0049225			NORMAL
5/11/84	6:49:38	0035743			NORMAL
5/10/84	6:39:48	0035743			NORMAL
5/09/84	7:01:30	0042232	214.0		NORMAL
5/08/84	7:00:04	0042232			NORMAL
5/07/84	6:53:28	0035743			NORMAL
5/06/84	11:47:52	0053257			NORMAL
5/05/84	9:15:32	0045130			NORMAL
5/04/84	7:01:16	0035743			NORMAL
5/03/84	7:41:52	0035743			NORMAL
5/02/84	14:43:42	0035743			NORMAL
5/02/84	11:54:42	0010186			MUNCHED POSTURE SLIGHT
5/02/84	10:23:26	0035743			MUNCHED POSTURE SLIGHT, INACTIVE SLIGHT
5/02/84	8:25:40	0035743	174.0		* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000965 SPECIES: 0 SEX: FEMALE GROUP: GROUP 4

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
5/03/84	7:06:34	0035743			DEATH
5/02/84	14:49:34	0035743			INACTIVE MARKED, HYPOTONIA MARKED, INCREASED SALIVATION SLIGHT
5/02/84	12:03:56	0084799			INACTIVE SLIGHT, HYPOTONIA SLIGHT, INCREASED SALIVATION SLIGHT,
					MUNCHED POSTURE SLIGHT
5/02/84	10:37:22	0084799			INACTIVE SLIGHT, HYPOTONIA SLIGHT, INCREASED SALIVATION SLIGHT,
					MUNCHED POSTURE SLIGHT
5/02/84	8:26:52	0035743	170.0		* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000966 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	7:05:40	0035743	DEATH
5/02/84	14:51:26	0084799	ROUGH COAT SLIGHT, INACTIVE SLIGHT, STAIN RED MOUTH SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	12:00:24	0010186	ROUGH COAT SLIGHT, MUNCHEDED POSTURE MODERATE, INACTIVE SLIGHT, STAIN RED MOUTH SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	10:38:16	0035743	ROUGH COAT SLIGHT, MUNCHEDED POSTURE MODERATE, INACTIVE SLIGHT
5/02/84	8:27:44	0035743 166.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000967 SPECIES: D SEX: FEMALE GROUP: GROUP 4			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	18:41:10	0010186	DEATH
5/02/84	14:52:40	0035743	MORTUARY
5/02/84	12:06:18	0010186	ROUGH COAT SLIGHT, MUNCHEDED POSTURE SLIGHT, INACTIVE MARKED
5/02/84	10:39:18	0035743	ROUGH COAT SLIGHT, MUNCHEDED POSTURE SLIGHT
5/02/84	8:29:12	0035743 202.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000921 SPECIES: D SEX: FEMALE GROUP: GROUP 5

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:45:42	0035743		DEATH
5/02/84	14:05:54	0035743		INACTIVE MARKED, STAIN URINE PERIANAL SLIGHT, STAIN RED MOUTH SLIGHT, HYPOTONIA MODERATE
5/02/84	11:14:16	0010186		HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	9:32:40	0035743		HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	8:31:12	0035743	165.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000923 SPECIES: D SEX: FEMALE GROUP: GROUP 5

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:50:10	0035743		DEATH
5/02/84	14:08:24	0035743		ROUGH COAT SLIGHT, INACTIVE SLIGHT, HUNCHED POSTURE SLIGHT
5/02/84	11:15:34	0010186		ROUGH COAT SLIGHT, HYPOTONIA SLIGHT, INACTIVE SLIGHT, HUNCHED POSTURE SLIGHT
5/02/84	9:36:32	0035743		ROUGH COAT SLIGHT, HYPOTONIA SLIGHT, INACTIVE SLIGHT, HUNCHED POSTURE SLIGHT
5/02/84	8:32:12	0035743	161.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000924 SPECIES: D SEX: FEMALE GROUP: GROUP 5

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	18:27:32	0010186		DEATH
5/02/84	14:09:22	0035743		ROUGH COAT SLIGHT, HYPOTONIA MODERATE, HUNCHED POSTURE SLIGHT, INACTIVE MARKED, STAIN URINE PERIANAL SLIGHT
5/02/84	11:16:50	0010186		HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, SLIGHT, HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	9:58:56	0035743		ROUGH COAT SLIGHT, HYPOTONIA SLIGHT, HUNCHED POSTURE SLIGHT, INACTIVE SLIGHT, STAIN URINE PERIANAL SLIGHT
5/02/84	8:33:46	0035743	174.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 84000925 SPECIES: D SEX: FEMALE GROUP: GROUP 5

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/04/84	6:52:24	0035743		DEATH	
5/03/84	7:19:16	0035743		ROUGH COAT MODERATE, HUNCHED POSTURE MODERATE, INACTIVE MARKED, HYPOTONIA MODERATE, INCREASED SALIVATION MODERATE, STAIN URINE PERIANAL MODERATE, CHROMODACHRYORRHEA SLIGHT, LACHRYMATION MARKED, DECREASED TEMPERATURE MARKED	
5/02/84	14:10:40	0035743		ROUGH COAT MODERATE, HUNCHED POSTURE SLIGHT, INACTIVE MODERATE, HYPOTONIA SLIGHT, INCREASED SALIVATION MODERATE	
5/02/84	11:17:06	0010186		ROUGH COAT MODERATE, HUNCHED POSTURE MODERATE, INACTIVE MODERATE, HYPOTONIA SLIGHT, INCREASED SALIVATION MODERATE	
5/02/84	9:40:06	0035743		ROUGH COAT MODERATE, HUNCHED POSTURE MODERATE, INACTIVE MODERATE, HYPOTONIA SLIGHT, INCREASED SALIVATION MODERATE	
5/02/84	8:35:16	0035743	177.0	* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000927 SPECIES: D SEX: FEMALE GROUP: GROUP 5

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/02/84	18:30:06	0010186		DEATH	
5/02/84	14:11:54	0035743		MORIBUND	
5/02/84	11:18:40	0010186		ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INACTIVE MODERATE, HYPOTONIA SLIGHT	
5/02/84	9:42:40	0035743	171.0	ROUGH COAT SLIGHT, HUNCHED POSTURE SLIGHT, INACTIVE MODERATE, HYPOTONIA SLIGHT	
5/02/84	8:56:10	0035743		* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000932 SPECIES: D SEX: FEMALE GROUP: GROUP 5

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
5/02/84	18:38:46	0010186		DEATH	
5/02/84	14:54:24	0035743		MORIBUND	
5/02/84	11:24:18	0010186		HUNCHED POSTURE SLIGHT	
5/02/84	9:50:58	0035743	188.0	ROUGH COAT SLIGHT, HYPOTONIA SLIGHT	
5/02/84	8:36:58	0035743		* NO OBSERVATIONS RECORDED.	

ANIMAL ID: 84000939 SPECIES: D SEX: FEMALE GROUP: GROUP 5			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	6:40:04	0035743	DEATH
5/02/84	14:25:12	0035743	ROUGH COAT MODERATE, TREMORS SLIGHT, HYPOTONIA MODERATE, INACTIVE MODERATE, MUNCHED POSTURE MODERATE, INCREASED SALIVATION SLIGHT, DEHYDRATED SLIGHT, DEPRESSED GRASPING REFLEX MODERATE
5/02/84	11:33:36	0010186	ROUGH COAT MODERATE, TREMORS SLIGHT, HYPOTONIA SLIGHT, INACTIVE MODERATE, MUNCHED POSTURE MODERATE, INCREASED SALIVATION SLIGHT, DEHYDRATED SLIGHT
5/02/84	10:01:48	0035743	ROUGH COAT SLIGHT, TREMORS SLIGHT, HYPOTONIA SLIGHT, INACTIVE MODERATE, MUNCHED POSTURE MODERATE, INCREASED SALIVATION SLIGHT, DEHYDRATED SLIGHT
5/02/84	8:38:26	0035743	142.0 * NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000942 SPECIES: D SEX: FEMALE GROUP: GROUP 5			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/02/84	18:33:32	0010186	DEATH
5/02/84	14:30:14	0035743	MORIBUND, DIARRHEA MODERATE
5/02/84	11:38:44	0010186	MORIBUND, DIARRHEA MODERATE
5/02/84	10:07:24	0035743	MORIBUND, DIARRHEA MODERATE
5/02/84	8:59:14	0035743	171.0 * NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000961 SPECIES: D SEX: FEMALE GROUP: GROUP 5			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	7:00:50	0035743	DEATH
5/02/84	14:46:32	0035743	MORIBUND, TWITCHING MODERATE
5/02/84	11:58:12	0010186	INACTIVE MARKED, INCREASED SALIVATION MODERATE, STAIN URINE PERIANAL MARKED, HYPOTONIA SLIGHT, DEPRESSED GRASPING REFLEX SLIGHT, MUNCHED POSTURE SLIGHT
5/02/84	10:28:14	0035743	INACTIVE MARKED, INCREASED SALIVATION MODERATE, STAIN URINE PERIANAL MARKED, HYPOTONIA MARKED, DEPRESSED GRASPING REFLEX MODERATE, DEPRESSED RIGHTING REFLEX MODERATE
5/02/84	8:41:12	0035743	163.0 * NO OBSERVATIONS RECORDED.
ANIMAL ID: 84000963 SPECIES: D SEX: FEMALE GROUP: GROUP 5			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
5/03/84	7:07:54	0035743	DEATH
5/02/84	14:48:40	0035743	MORIBUND
5/02/84	12:01:48	0010186	ROUGH COAT MARKED, INCREASED SALIVATION MARKED, MUNCHED POSTURE MARKED, INACTIVE MARKED, HYPOTONIA MODERATE, TREMORS SLIGHT
5/02/84	10:32:04	0035743	ROUGH COAT MARKED, INCREASED SALIVATION MARKED, MUNCHED POSTURE MARKED, INACTIVE MARKED, HYPOTONIA MODERATE, DIFFICULTY WITH RESPIRATION
5/02/84	8:41:58	0035743	177.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000641 SPECIES: U SEX: MALE GROUP: 1000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/16/83	7:40:02	262.0	NORMAL
12/16/83	9:12:14		NORMAL
12/16/83	9:19:12		NORMAL
12/16/83	9:37:30		NORMAL
12/16/83	9:33:18		NORMAL
12/16/83	8:18:02	271.0	NORMAL
12/16/83	8:06:12		NORMAL
12/16/83	11:34:02		NORMAL
12/16/83	9:44:20		NORMAL
12/16/83	9:31:36	253.0	NORMAL
12/16/83	9:56:02		NORMAL
12/16/83	9:50:50		NORMAL
12/16/83	9:31:56	237.0	NORMAL
12/16/83	10:32:40		NORMAL
12/16/83	9:13:04		NORMAL
12/16/83	13:23:34		NORMAL
12/02/83	11:01:50		NORMAL
12/02/83	9:49:02	206.0	NORMAL
12/01/83	8:43:52		NORMAL

Moderate Inactive, Moderate Pilo Erection, Slight Hunched Posture, Slight
Clear Material Mouth

ANIMAL ID: 83000649 SPECIES: U SEX: MALE GROUP: 1000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/16/83	7:49:12	315.0	SLIGHT RED STAIN NOSE
12/16/83	9:13:32		NORMAL
12/16/83	9:19:54		SLIGHT RED STAIN NOSE
12/16/83	9:37:52		SLIGHT RED STAIN NOSE
12/16/83	9:33:38		SLIGHT RED STAIN NOSE
12/16/83	8:19:04	326.0	NORMAL
12/16/83	11:54:16		NORMAL
12/16/83	9:45:28		NORMAL
12/16/83	9:52:26	304.0	NORMAL
12/16/83	9:56:24		NORMAL
12/16/83	9:51:20		NORMAL
12/16/83	9:52:34	279.0	NORMAL
12/16/83	10:52:34		NORMAL
12/16/83	9:13:32		NORMAL
12/16/83	13:25:38		SLIGHT HUNCHED POSTURE, SLIGHT INACTIVE, SLIGHT Pilo Erection
12/16/83	11:02:20		SLIGHT Pilo Erection, Slight Hunched Posture
12/16/83	9:49:44	236.0	NORMAL
12/16/83	9:44:22		NORMAL

ANIMAL ID: 83000655				SPECIES: U	SEX: MALE	GROUP: 1000 UL/KG
				OBSERVATIONS		
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS			
12/16/83	7:50:34	0073522	NORMAL			
12/15/83	9:14:52	0073522	NORMAL			
12/14/83	8:20:02	0073522	NORMAL			
12/13/83	9:38:24	0049225	NORMAL			
12/12/83	9:34:12	0049225	NORMAL			
12/11/83	8:19:52	0002605	NORMAL			
12/10/83	11:34:26	0002605	NORMAL			
12/09/83	9:45:50	0073522	NORMAL			
12/08/83	9:33:04	0073522	NORMAL			
12/07/83	9:56:48	0073522	NORMAL			
12/06/83	9:51:50	0073522	NORMAL			
12/05/83	9:33:10	0073522	NORMAL			
12/04/83	10:33:08	0053257	NORMAL			
12/03/83	9:13:49	0069406	NORMAL			
12/02/83	13:27:16	0049225	MODERATE HUNCHED POSTURE			
12/02/83	11:02:56	0035743	MODERATE HUNCHED POSTURE			
12/02/83	8:50:20	0035743	NORMAL			
12/01/83	8:44:34	0035743	NORMAL			

ANIMAL ID: 83000656				SPECIES: D	SEX: MALE	GROUP: 1000 UL/KG
OBSERVATIONS						
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS			
12/16/83	7:51:34	0073522	SLIGHT RED STAIN NOSE			
12/15/83	9:16:08	0073522	NORMAL			
12/14/83	8:20:30	0073522	SLIGHT RED STAIN NOSE			
12/13/83	9:38:54	0049225	SLIGHT RED STAIN NOSE			
12/12/83	9:34:52	0049225	NORMAL			
12/11/83	8:20:56	0002605	NORMAL			
12/10/83	11:54:36	0002605	NORMAL			
12/09/83	9:46:12	0073522	NORMAL			
12/08/83	9:33:58	0069406	SLIGHT RED STAIN LEFT EYE			
12/07/83	9:57:10	0073522	NORMAL			
12/06/83	9:52:14	0073522	NORMAL			
12/05/83	9:33:52	0073522	NORMAL			
12/04/83	10:33:20	0053257	NORMAL			
12/03/83	9:14:04	0069406	NORMAL			
12/02/83	13:27:54	0069406	SLIGHT INACTIVE, MODERATE HUNCHED POSTURE			
12/02/83	11:03:24	0035743	SLIGHT HUNCHED POSTURE			
12/02/83	8:51:14	0035743	NORMAL			
12/01/83	8:44:46	0035743	SLIGHT RED STAIN RIGHT EYE			

ANIMAL ID: 83000665 SPECIES: D SEX: MALE GROUP: 1000 UL/KG

DATE	TIME	OBSERVATIONS	
		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/16/83	7:52:32	265.0	NORMAL
12/15/83	9:17:02		SLIGHT RED STAIN NOSE
12/14/83	8:20:56		NORMAL
12/13/83	9:39:22		NORMAL
12/12/83	9:34:26		SLIGHT RED STAIN NOSE
12/11/83	8:21:54	276.0	NORMAL
12/10/83	11:34:52		NORMAL
12/09/83	9:46:48		NORMAL
12/08/83	9:35:02	259.0	NORMAL
12/07/83	9:57:58		NORMAL
12/06/83	9:52:50		NORMAL
12/05/83	9:34:38	243.0	NORMAL
12/04/83	10:53:56		NORMAL
12/03/83	9:14:16		NORMAL
12/02/83	13:29:30		SLIGHT INACTIVE, MODERATE HUNCHED POSTURE
12/02/83	11:04:02		SLIGHT HUNCHED POSTURE
12/02/83	8:52:12	206.0	NORMAL
12/01/83	8:45:22		NORMAL

ANIMAL ID: 83000667 SPECIES: D SEX: MALE GROUP: 1000 UL/KG

DATE	TIME	OBSERVATIONS	
		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/16/83	7:53:16	294.0	NORMAL
12/15/83	9:18:04		NORMAL
12/14/83	8:21:16		SLIGHT RED STAIN NOSE
12/13/83	9:39:44		NORMAL
12/12/83	9:35:26		NORMAL
12/11/83	8:23:04	304.0	NORMAL
12/10/83	11:55:02		NORMAL
12/09/83	9:47:12		NORMAL
12/08/83	9:35:46	289.0	NORMAL
12/07/83	9:58:04		NORMAL
12/06/83	9:53:10		NORMAL
12/05/83	9:35:22	266.0	NORMAL
12/04/83	10:55:52		NORMAL
12/03/83	9:14:32		SLIGHT RED MATERIAL NOSE
12/02/83	13:30:16		SLIGHT INACTIVE
12/02/83	11:04:58		SLIGHT HUNCHED POSTURE
12/02/83	8:53:08	226.0	NORMAL
12/01/83	8:45:40		NORMAL

ANIMAL ID: 83000686 SPECIES: D SEX: MALE GROUP: 1000 UL/KG

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/16/83	7:54:32	0073522	518.0	NORMAL	
12/15/83	9:19:00	0073522		NORMAL	
12/14/83	8:21:44	0073522		SLIGHT RED STAIN NOSE	
12/13/83	9:40:06	0049225		SLIGHT RED STAIN NOSE	
12/12/83	9:35:52	0049225		SLIGHT RED STAIN NOSE	
12/11/83	8:24:00	0002605	332.0	NORMAL	
12/10/83	11:55:12	0002605		NORMAL	
12/09/83	9:51:20	0073522		NORMAL	
12/08/83	9:36:20	0073522	312.0	SLIGHT RED STAIN NOSE	
12/07/83	9:58:28	0073522		NORMAL	
12/06/83	9:53:40	0073522		NORMAL	
12/05/83	9:36:06	0073522	292.0	NORMAL	
12/04/83	10:34:10	0053257		NORMAL	
12/03/83	9:14:58	0069406		NORMAL	
12/02/83	13:31:26	0069406		SLIGHT INACTIVE, MODERATE MUNCHED POSTURE, MODERATE PILO ERECTION	
12/02/83	11:05:34	0035743		SLIGHT MUNCHED POSTURE	
12/02/83	8:54:14	0035743	247.0	NORMAL	
12/01/83	8:45:58	0035743		NORMAL	

ANIMAL ID: 83000690 SPECIES: D SEX: MALE GROUP: 1000 UL/KG

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/16/83	7:55:20	0073522	312.0	NORMAL	
12/15/83	9:19:46	0073522		NORMAL	
12/14/83	8:22:06	0073522		NORMAL	
12/13/83	9:40:30	0049225		SLIGHT RED STAIN NOSE	
12/12/83	9:36:22	0049225		SLIGHT RED STAIN NOSE	
12/11/83	8:24:56	0002605	323.0	NORMAL	
12/10/83	11:35:26	0002605		NORMAL	
12/09/83	9:52:14	0073522		NORMAL	
12/08/83	9:37:14	0073522	303.0	NORMAL	
12/07/83	9:50:52	0073522		NORMAL	
12/06/83	9:54:04	0073522		NORMAL	
12/05/83	9:36:44	0073522	285.0	NORMAL	
12/04/83	10:34:26	0053257		NORMAL	
12/03/83	9:15:12	0069406		NORMAL	
12/02/83	13:32:22	0069406		SLIGHT MUNCHED POSTURE, SLIGHT PILO ERECTION	
12/02/83	11:06:00	0035743		SLIGHT MUNCHED POSTURE	
12/02/83	8:55:06	0035743	241.0	NORMAL	
12/01/83	8:46:34	0035743		NORMAL	

ANIMAL ID: 83D00691 SPECIES: D SEX: MALE GROUP: 1000 UL/KG

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/16/83	7:56:12	0073522	272.0	NORMAL	
12/15/83	9:20:26	0073522		NORMAL	
12/14/83	8:22:28	0073522		SLIGHT RED STAIN NOSE	
12/13/83	9:40:52	0049225		NORMAL	
12/12/83	9:36:50	0049225		SLIGHT RED STAIN NOSE	
12/11/83	8:25:50	0002605	292.0	NORMAL	
12/10/83	11:35:34	0002605		NORMAL	
12/09/83	9:52:36	0073522		NORMAL	
12/08/83	9:37:40	0073522	263.0	NORMAL	
12/07/83	9:59:12	0073522		NORMAL	
12/06/83	9:54:24	0073522		NORMAL	
12/05/83	9:37:16	0073522	244.0	NORMAL	
12/04/83	10:34:40	0053257		NORMAL	
12/03/83	4:15:24	0069406		NORMAL	
12/02/83	13:32:52	0069406		SLIGHT INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT RED STAIN MOUTH	
12/02/83	11:06:26	0035743		SLIGHT HUNCHED POSTURE	
12/02/83	8:55:46	0035743	204.0	NORMAL	
12/01/83	8:46:50	0035743		NORMAL	

ANIMAL ID: 83000647 SPECIES: U SEX: MALE GROUP: 2000 UL/KG

OBSERVATIONS
WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

12/14/83	8:06:16	0073522	288.0	NORMAL
12/13/83	9:30:30	0049225		NORMAL
12/12/83	9:24:58	0049225		NORMAL
12/11/83	8:02:00	0002605		NORMAL
12/10/83	11:29:46	0002605		NORMAL
12/09/83	9:34:54	0073522	294.0	NORMAL
12/08/83	9:23:24	0073522		NORMAL
12/07/83	9:50:14	0073522		NORMAL
12/06/83	9:40:18	0073522	273.0	NORMAL
12/05/83	9:11:52	0073522	269.0	NORMAL
12/04/83	10:27:52	0053257		NORMAL
12/03/83	9:04:04	0069406		NORMAL
12/02/83	8:34:06	0035743	238.0	NORMAL
12/01/83	8:24:00	0035743		NORMAL
11/30/83	13:47:06	0069406		NORMAL
MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE LOSS OF EQUILIBRIUM, MODERATE INCREASED RESPIRATION RATE, MODERATE DECREASED RESPIRATION DEPTH, SLIGHT YELLOW STAIN MOUTH, MODERATE SLUGGISH				
11/30/83	11:36:12	0049225		MARKED INACTIVE
11/30/83	10:22:00	0049225		NORMAL
11/30/83	8:46:14	0049225	228.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000648 SPECIES: U SEX: MALE GROUP: 2000 UL/KG

OBSERVATIONS
WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

12/14/83	8:07:02	0073522	288.0	NORMAL
12/13/83	9:30:54	0049225		NORMAL
12/12/83	9:25:34	0049225		SLIGHT RED STAIN NOSE
12/11/83	8:02:14	0002605		NORMAL
12/10/83	11:29:54	0002605		NORMAL
12/09/83	9:35:26	0073522	295.0	NORMAL
12/08/83	9:23:40	0073522		NORMAL
12/07/83	9:50:40	0073522		NORMAL
12/06/83	9:40:58	0073522	275.0	NORMAL
12/05/83	9:20:32	0073522	268.0	NORMAL
12/04/83	10:28:02	0053257		NORMAL
12/03/83	9:04:18	0069406		NORMAL
12/02/83	8:36:06	0035743	242.0	NORMAL
12/01/83	8:24:52	0035743		SLIGHT Pilo ERECTION, SLIGHT RED STAIN RIGHT EYE
11/30/83	13:52:58	0016654		MODERATE HUNCHED POSTURE, MODERATE INACTIVE, MODERATE RED MATERIAL RIGHT EYE
11/30/83	11:37:22	0049225		MODERATE RED STAIN RIGHT EYE
11/30/83	10:27:12	0049225		NORMAL
11/30/83	8:48:20	0049225	219.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000651				SPECIES: D		SEX: MALE		GROUP: 2000 UL/KG					
				OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS					
DATE	TIME	OPERATOR	WEIGHT (GRAMS)										
12/14/83	8:07:58	0073522	233.0	NORMAL		RED STAIN MOUTH, SLIGHT RED STAIN RIGHT EYE, MODERATE YELLOW PERIANAL MATERIAL MODERATE INACTIVE, MODERATE MUNCHED POSTURE, SLIGHT PILO EJECTION, SLIGHT INCREASED SALIVATION, MODERATE BROWN MATERIAL PERIANAL, MODERATE INCREASED RESPIRATION DEPTH, MODERATE DECREASED RESPIRATION RATE MARKED MUNCHED POSTURE, MODERATE PILO EJECTION, SLIGHT INCREASED SALIVATION, SLIGHT DIARRHEA, MARKED INACTIVE MODERATE BROWN PERIANAL MATERIAL * NO OBSERVATIONS RECORDED.							
12/13/83	9:31:44	0049225		NORMAL									
12/12/83	9:26:56	0049225		NORMAL									
12/11/83	8:02:32	0002605		NORMAL									
12/10/83	11:30:04	0002605		NORMAL									
12/09/83	9:36:02	0073522	247.0	NORMAL									
12/08/83	9:24:04	0073522		NORMAL									
12/07/83	9:51:06	0073522		NORMAL									
12/06/83	9:41:46	0073522	230.0	NORMAL									
12/05/83	9:21:20	0073522	226.0	NORMAL									
12/04/83	10:28:20	0053257		NORMAL									
12/03/83	9:04:56	0069406		NORMAL									
12/02/83	8:37:12	0035743	193.0	MARKED RED STAIN MOUTH, SLIGHT RED STAIN RIGHT EYE, MODERATE YELLOW PERIANAL MATERIAL									
12/01/83	9:25:54	0035743		MODERATE INACTIVE, MODERATE MUNCHED POSTURE, SLIGHT PILO EJECTION, SLIGHT INCREASED SALIVATION, MODERATE BROWN MATERIAL PERIANAL, MODERATE INCREASED RESPIRATION DEPTH, MODERATE DECREASED RESPIRATION RATE									
11/30/83	13:55:08	0069406		MARKED MUNCHED POSTURE, MODERATE PILO EJECTION, SLIGHT INCREASED SALIVATION, SLIGHT DIARRHEA, MARKED INACTIVE									
11/30/83	11:38:12	0049225		MODERATE BROWN PERIANAL MATERIAL									
11/30/83	10:27:52	0069406		* NO OBSERVATIONS RECORDED.									
11/30/83	8:49:26	0049225	190.0										
ANIMAL ID: 83000657				SPECIES: D						SEX: MALE		GROUP: 2000 UL/KG	
				OBSERVATIONS						WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	WEIGHT (GRAMS)										
12/14/83	8:08:48	0073522	289.0	NORMAL		SLIGHT PILO EJECTION, SLIGHT MUNCHED POSTURE, SLIGHT RED STAIN MOUTH MODERATE INACTIVE, MODERATE MUNCHED POSTURE, MODERATE PILO EJECTION, SLIGHT INCREASED SALIVATION MARKED MUNCHED POSTURE, SLIGHT PILO EJECTION, SLIGHT INACTIVE * NO OBSERVATIONS RECORDED.							
12/13/83	9:52:04	0049225		NORMAL									
12/12/83	9:26:56	0049225		NORMAL									
12/11/83	8:02:46	0002605		NORMAL									
12/10/83	11:30:14	0002605		NORMAL									
12/09/83	9:36:36	0073522	303.0	NORMAL									
12/08/83	9:24:44	0073522		NORMAL									
12/07/83	9:51:30	0073522		NORMAL									
12/06/83	9:42:26	0073522	275.0	NORMAL									
12/05/83	9:22:04	0073522	268.0	NORMAL									
12/04/83	10:26:34	0053257		NORMAL									
12/03/83	9:04:56	0069406		NORMAL									
12/02/83	8:58:00	0035743	237.0	SLIGHT PILO EJECTION, SLIGHT MUNCHED POSTURE, SLIGHT RED STAIN MOUTH									
12/01/83	8:26:34	0035743		MODERATE INACTIVE, MODERATE MUNCHED POSTURE, MODERATE PILO EJECTION, SLIGHT INCREASED SALIVATION									
11/30/83	13:58:48	0016654		MARKED MUNCHED POSTURE, SLIGHT PILO EJECTION, SLIGHT INACTIVE									
11/30/83	11:40:28	0049225		NORMAL									
11/30/83	10:30:06	0049225		* NO OBSERVATIONS RECORDED.									
11/30/83	8:50:40	0049225	236.0										

ANIMAL ID: 03000662 SPECIES: D SEX: MALE GROUP: 2000 UL/KG

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/14/83	8:04:34	0073522	309.0	NORMAL	
12/13/83	9:34:22	0049225		SLIGHT RED STAIN NOSE	
12/12/83	9:27:16	0049225		SLIGHT RED STAIN NOSE	
12/11/83	8:02:58	0002605		NORMAL	
12/10/83	11:30:22	0002605		NORMAL	
12/09/83	9:37:14	0073522	305.0	NORMAL	
12/08/83	9:25:06	0073522		NORMAL	
12/07/83	9:51:50	0073522		NORMAL	
12/06/83	9:43:04	0073522	283.0	NORMAL	
12/05/83	9:22:44	0073522	276.0	NORMAL	
12/04/83	10:28:48	0053257		NORMAL	
12/03/83	9:05:12	0059406	230.0	NORMAL	
12/02/83	8:38:40	0055743		MODERATE PILO EJECTION, MODERATE HUNCHED POSTURE, MODERATE IRRITABLE, MARKED RED STAIN MOUTH, SLIGHT RED STAIN EYE	
12/01/83	8:27:26	0049406		MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO EJECTION, SLIGHT IRRITABLE, SLIGHT INCREASED SALIVATION	
11/30/83	13:59:58	0016654		SLIGHT HUNCHED POSTURE, SLIGHT PILO EJECTION, SLIGHT INACTIVE, MODERATE MARKED DECREASED RESPIRATION RATE	
11/30/83	11:41:30	0049406		MARKED DECREASED RESPIRATION RATE	
11/30/83	10:30:34	0049406	242.0	* NO OBSERVATIONS RECORDED.	
11/30/83	8:51:50	0049225			

ANIMAL ID: 03000666 SPECIES: D SEX: MALE GROUP: 2000 UL/KG

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/01/83	8:03:58	0035743		DEATH	
11/30/83	14:01:18	0049406		MODERATE INACTIVE, MODERATE DEPRESSED GRASPING REFLEX, MODERATE DEPRESSED RIGHTING REFLEX, SLIGHT INCREASED SALIVATION	
11/30/83	11:42:20	0049225		MODERATE HUNCHED POSTURE, SLIGHT PILO EJECTION, MODERATE INACTIVE, MODERATE INCREASED SALIVATION	
11/30/83	10:51:58	0049406		MODERATE TACHYPNEA, MODERATE INACTIVE, MODERATE CLEAR MATERIAL MOUTH	
11/30/83	8:53:26	0049225	232.0	* NO OBSERVATIONS RECORDED.	

ANIMAL ID: A3000680		SPECIES: D		SEX: MALE		GROUP: 2000 UL/KG	
		OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)	WEIGHT		CLINICAL OBSERVATIONS	
12/18/83	8:10:36	0073522		239.0		SLIGHT RED STAIN NOSE	
12/13/83	9:33:06	0049225				TAIL HEALING	
12/12/83	9:28:04	0049225				NECROTIC TIP OF TAIL MISSING, SLIGHT RED STAIN NOSE	
12/11/83	8:03:30	0002605				NORMAL	
12/10/83	11:30:38	0002605				NORMAL	
12/09/83	9:37:58	0073522		231.0		NECROSIS TIP OF TAIL	
12/08/83	9:25:28	0073522				NECROSIS TIP OF TAIL	
12/07/83	9:52:16	0073522				NECROSIS TIP OF TAIL	
12/06/83	9:43:44	0073522		213.0		SLIGHT RED MATERIAL EYE, SLIGHT DARK MATERIAL PERIANAL, NECROSIS TIP OF TAIL	
12/05/83	9:23:28	0069406		205.0		SLIGHT RED MATERIAL EYE, SLIGHT RED MATERIAL NOSE, SLIGHT RED MATERIAL PERIANAL, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION	
12/04/83	10:29:10	0053257				SLIGHT RED MATERIAL EYE, SLIGHT RED MATERIAL NOSE, SLIGHT RED MATERIAL PERIANAL, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, FRONT LEG, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, TAR COLORED, POSSIBLY BLOODY FECES	
12/03/83	9:05:34	0069406				MODERATE PILO ERECTION, MODERATE INACTIVE, MODERATE RED STAIN EYE, MODERATE RED STAIN NOSE, MODERATE RED STAIN MOUTH	
12/02/83	8:39:40	0069406		192.0		MODERATE PILO ERECTION, MODERATE RED STAIN MOUTH	
12/01/83	8:28:40	0069406				MARKED INACTIVE, MODERATE PILO ERECTION, MARKED YELLOW STAIN MOUTH, MARKED RED MATERIAL LEFT RIGHT EYE, MARKED DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX	
11/30/83	18:03:36	0084799				MODERATE INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, MODERATE DEPRESSED GRASPING REFLEX, SLIGHT DEPRESSED RIGHTING REFLEX	
11/30/83	11:44:02	0049225				MODERATE INACTIVE, SLIGHT PILO ERECTION, SLIGHT HUNCHED POSTURE	
11/30/83	10:35:30	0069406				MODERATE TACHYPNEA, MODERATE RED STAIN MOUTH, MODERATE INACTIVE	

ANIMAL ID: 83000683 SPECIES: D SEX: MALE GROUP: 2000 UL/KG

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
12/14/83	8:11:54	0073522	278.0	NORMAL	
12/13/83	9:34:32	0049225		NORMAL	
12/12/83	9:30:12	0049225		NORMAL	
12/11/83	8:04:02	0002605		NORMAL	
12/10/83	11:32:34	0002605		NORMAL	
12/09/83	9:39:34	0073522	287.0	NORMAL	
12/08/83	9:26:12	0073522		NORMAL	
12/07/83	9:53:10	0073522		NORMAL	
12/06/83	9:05:26	0073522	260.0	NORMAL	
12/05/83	4:27:56	0073522	257.0	NORMAL	
12/04/83	10:30:48	0053257		NORMAL	
12/03/83	9:11:36	0069406		NORMAL	
12/02/83	8:42:50	0035743	230.0	NORMAL	
12/01/83	8:30:22	0035743		NORMAL	
11/30/83	14:05:12	0069406		NORMAL	
11/30/83	11:45:04	0069406		NORMAL	
11/30/83	10:30:40	0049225		NORMAL	
11/30/83	8:55:24	0049225	213.0	NORMAL	

SLIGHT CLEAR MATERIAL MOUTH
 MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT
 INCREASED SALIVATION, MODERATE DEPRESSED GRASPING REFLEX, SLIGHT
 DEPRESSED RIGHTING REFLEX, MODERATE BROWN MATERIAL PERIANAL
 MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE, SLIGHT
 INCREASED SALIVATION, SLIGHT DIARRHEA
 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000687 SPECIES: D SEX: MALE GROUP: 2000 UL/KG

OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)		
11/30/83	17:33:32	0017557		DEATH	
11/30/83	14:07:24	0069406		MARKED INACTIVE, SLIGHT PILO ERECTION, MODERATE DECREASED RESPIRATION RATE, MODERATE INCREASED RESPIRATION DEPTH, MODERATE TITCHING, MARKED DEPRESSED GRASPING REFLEX, MODERATE CLEAR MATERIAL EYE, MARKED DEPRESSED RIGHTING REFLEX	
11/30/83	11:46:12	0049225		MARKED INACTIVE, MODERATE INCREASED TEMPERATURE PROSTRATE	
11/30/83	10:01:54	0049225	252.0	* NO OBSERVATIONS RECORDED.	
11/30/83	8:56:16	0049225			

ANIMAL ID: 83000633 SPECIES: D SEX: MALE GROUP: 3000 UL/KG

OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
11/30/83	10:42:42	0069406	DEATH
11/30/83	8:57:20	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000635 SPECIES: D SEX: MALE GROUP: 3000 UL/KG

OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
12/14/83	8:12:56	0073522	NORMAL
12/13/83	9:35:00	0049225	NORMAL
12/12/83	9:50:59	0049225	NORMAL
12/11/83	8:04:22	0002605	NORMAL
12/10/83	11:32:46	0002605	NORMAL
12/09/83	9:40:10	0073522	NORMAL
12/08/83	9:26:58	0073522	NORMAL
12/07/83	9:53:40	0073522	NORMAL
12/06/83	9:46:16	0073522	NORMAL
12/05/83	9:28:50	0073522	NORMAL
12/04/83	10:51:16	0053257	NORMAL
12/03/83	9:11:54	0069406	NORMAL
12/02/83	8:44:00	0035743	NORMAL
12/01/83	8:51:20	0035743	NORMAL
11/30/83	14:18:46	0069406	NORMAL
11/30/83	11:47:54	0069406	NORMAL
11/30/83	10:45:18	0069406	NORMAL
11/30/83	9:01:02	0049225	NORMAL

SLIGHT RED STAIN LEFT EYE, SLIGHT RED MOUTH STAIN, MODERATE IRRITABLE
MARKED INACTIVE, SLIGHT PULO ERECTION, MODERATE DEPRESSED GRASPING REFLEX,
MARKED DEPRESSED RIGHTING REFLEX
MODERATE HUNCHED POSTURE, MODERATE PULO ERECTION, MODERATE INACTIVE, SLIGHT
MOUTH STAIN RED
MODERATE TACHYPNEA, MODERATE RED STAIN MOUTH
* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000636 SPECIES: D SEX: MALE GROUP: 3000 UL/KG

OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
11/30/83	17:35:02	0017557	DEATH
11/30/83	14:20:14	0016654	PROSTRATE
11/30/83	11:49:22	0069406	MARKED INACTIVE, MODERATE INCREASED RESPIRATION DEPTH, MODERATE DECREASED RESPIRATION RATE, SLIGHT INCREASED SALIVATION
11/30/83	10:46:52	0069406	MODERATE DECREASED RESPIRATION RATE, MODERATE INCREASED RESPIRATION DEPTH, PROSTRATE
11/30/83	9:02:00	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000645 SPECIES: D SEX: MALE GROUP: 3000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:08:08	0035743	DEATH
11/30/83	14:13:52	0016654	PROSTRATE
11/30/83	11:51:46	0049225	SLIGHT PILO ERECTION, SLIGHT HUNCHED POSTURE, SLIGHT INACTIVE, MODERATE DIAPHRYEA
11/30/83	10:48:38	0069406	MODERATE TACHYPNEA, MODERATE BROWN MATERIAL PERIANAL
11/30/83	8:59:16	0049225	237.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000650 SPECIES: D SEX: MALE GROUP: 3000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	10:50:44	0049225	MISDOSE
11/30/83	9:03:06	0049225	230.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000673 SPECIES: D SEX: MALE GROUP: 3000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/14/83	8:13:50	0073522	281.0 NORMAL
12/13/83	9:35:26	0049225	NORMAL
12/12/83	9:31:04	0049225	SLIGHT RED STAIN NOSE
12/11/83	8:04:36	0002605	NORMAL
12/10/83	11:33:08	0002605	NORMAL
12/10/83	11:32:56	0002605	NORMAL
12/09/83	9:40:42	0073522	288.0 NORMAL
12/08/83	9:27:02	0073522	NORMAL
12/07/83	9:54:18	0073522	NORMAL
12/06/83	9:46:56	0073522	270.0 NORMAL
12/05/83	9:29:28	0073522	262.0 NORMAL
12/04/83	10:31:26	0053257	NORMAL
12/03/83	9:12:06	0069406	NORMAL
12/02/83	8:45:09	0035743	238.0 NORMAL
12/01/83	8:32:16	0069406	MODERATE INACTIVE, SLIGHT DEPRESSED GRASPING REFLEX
11/30/83	14:14:40	0016654	MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION
11/30/83	11:54:56	0049225	SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION
11/30/83	10:53:32	0049225	MODERATE TACHYPNEA
11/30/83	9:04:44	0049225	248.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000676 SPECIES: O SEX: MALE GROUP: 3000 UL/KG			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	9:01:14	0035743	* NO OBSERVATIONS RECORDED.
11/30/83	17:28:24	0017557	DEATH
11/30/83	14:15:28	0016654	PROSTRATE
11/30/83	11:55:36	0049225	MARKED INACTIVE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION
11/30/83	10:54:18	0049225	PROSTRATE
11/30/83	9:06:14	0049225	* NO OBSERVATIONS RECORDED.
218.0			
ANIMAL ID: 83000698 SPECIES: U SEX: MALE GROUP: 3000 UL/KG			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:09:50	0035743	DEATH
11/30/83	14:16:14	0016654	MARKED INACTIVE, SLIGHT DIARRHEA
11/30/83	11:56:38	0049225	SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, MODERATE TACHYPNEA, MODERATE DIARRHEA
11/30/83	10:54:54	0049225	MODERATE TACHYPNEA, MODERATE INACTIVE
11/30/83	9:07:40	0049225	* NO OBSERVATIONS RECORDED.
237.0			
ANIMAL ID: 83000695 SPECIES: O SEX: MALE GROUP: 3000 UL/KG			
OBSERVATIONS			
DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/14/83	8:14:52	0073522	NORMAL
12/13/83	9:35:56	0049225	NORMAL
12/12/83	9:31:42	0049225	NORMAL
12/11/83	9:04:50	0002605	NORMAL
12/10/83	11:33:24	0002605	NORMAL
12/09/83	9:41:16	0073522	NORMAL
12/08/83	9:27:26	0073522	NORMAL
12/07/83	9:54:42	0073522	NORMAL
12/06/83	9:47:24	0073522	NORMAL
12/05/83	9:30:12	0073522	NORMAL
12/04/83	10:31:40	0053257	NORMAL
12/03/83	9:12:16	0059406	NORMAL
12/02/83	8:43:54	0035743	SLIGHT RED STAIN MOUTH
12/01/83	8:33:16	0059406	SLIGHT PILO ERECTION, MODERATE RED STAIN EYE, MODERATE RED STAIN MOUTH, MODERATE IRRITABLE
11/30/83	14:11:26	0016654	MODERATE INACTIVE, SLIGHT PILO ERECTION, SLIGHT HUNCHED POSTURE
11/30/83	11:59:02	0049225	MODERATE HUNCHED POSTURE, SLIGHT PILO ERECTION, MODERATE INACTIVE
11/30/83	10:56:18	0049225	MODERATE TACHYPNEA, MODERATE INACTIVE
11/30/83	9:08:34	0049225	* NO OBSERVATIONS RECORDED.
11/29/83	15:30:40	0049225	* NO OBSERVATIONS RECORDED.
249.0			
265.0			

ANIMAL ID: 83000642 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
12/01/83	8:10:12	0035743	DEATH
11/30/83	14:20:50	0069406	MARKED INACTIVE, MARKED RED NASAL DISCHARGE, MARKED DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX, SLIGHT PILO ERECTION
11/30/83	12:00:06	0049225	MARKED INACTIVE, SLIGHT PILO ERECTION
11/30/83	10:50:00	0049225	MARKED INACTIVE
11/30/83	9:09:50	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000659 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
12/01/83	8:07:30	0035743	DEATH
11/30/83	14:22:40	0069406	MARKED INACTIVE, SLIGHT PILO ERECTION, SLIGHT TWITCHING, MARKED DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX, MODERATE INCREASED SALIVATION
11/30/83	12:00:50	0049225	MODERATE INACTIVE, SLIGHT PILO ERECTION, MARKED INCREASED SALIVATION, SLIGHT BROWN MATERIAL PERIANAL
11/30/83	10:59:26	0069406	MARKED INACTIVE, MODERATE BROWN MATERIAL PERIANAL, MODERATE CLEAR MOUTH STAIN
11/30/83	9:11:14	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000663 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS
WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

DATE	TIME	WEIGHT	CLINICAL OBSERVATIONS
12/01/83	8:04:20	0035743	DEATH
11/30/83	14:24:20	0069406	MARKED INACTIVE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION, MODERATE DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	12:02:10	0049225	MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE, MODERATE IRRITABLE, SLIGHT INCREASED SALIVATION
11/30/83	11:01:34	0069406	MODERATE HUNCHED POSTURE, MODERATE CLEAR MOUTH STAIN
11/30/83	9:11:48	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000672 SPECIES: D SEX: MALE GROUP: 4000 UL/KG

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:03:30	0035743	DEATH
11/30/83	14:25:32	0016654	MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT RED NASAL DISCHARGE, MODERATE CLEAR MATERIAL MOUTH
11/30/83	12:03:36	0084799	MODERATE INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION
11/30/83	11:04:26	0069406	MODERATE TACHYPNEA, MODERATE CLEAR MATERIAL MOUTH, MODERATE HUNCHED POSTURE
11/30/83	9:14:16	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000674 SPECIES: D SEX: MALE GROUP: 4000 UL/KG

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:05:06	0035743	DEATH
11/30/83	14:27:04	0016654	PROSTRATE
11/30/83	12:04:54	0049225	MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE STAGGERING, MODERATE LOSS OF EQUILIBRIUM, MARKED INCREASED SALIVATION
11/30/83	11:05:38	0049225	MARKED INACTIVE, MODERATE STAGGERING, MARKED TACHYPNEA
11/30/83	9:15:22	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000677 SPECIES: D SEX: MALE GROUP: 4000 UL/KG

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	11:07:40	0069406	* NO OBSERVATIONS RECORDED.
11/30/83	9:16:18	0049225	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000679 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	0:12:56	0035743	DEATH
11/30/83	14:27:46	0016654	PROSTRATE
11/30/83	12:06:36	0069406	MARKED INACTIVE, MARKED INCREASED SALIVATION, MARKED DEPRESSED GRASPING REFLEX, MARKED PILO ERECTION
11/30/83	11:09:52	0049225	MODERATE PILO ERECTION
11/30/83	9:17:44	0049225	229.0 MARKED HUNCHED POSTURE, MARKED INCREASED SALIVATION, MODERATE IRRITABLE * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000682 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:12:30	0035743	DEATH
11/30/83	14:28:24	0016654	PROSTRATE
11/30/83	12:07:54	0049225	MARKED INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INCREASED SALIVATION, MODERATE IRRITABLE
11/30/83	11:11:40	0049225	MARKED HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE TACHYPNEA, MODERATE IRRITABLE, SLIGHT INCREASED SALIVATION
11/30/83	9:21:32	0049225	236.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000694 SPECIES: D SEX: MALE GROUP: 4000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	6:09:22	0035743	DEATH
11/30/83	14:28:42	0069406	MARKED INACTIVE, SLIGHT PILO ERECTION, MODERATE DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	12:08:54	0069406	SLIGHT HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE, MODERATE IRRITABLE, SLIGHT INCREASED SALIVATION
11/30/83	11:12:54	0049225	SLIGHT INCREASED SALIVATION, SLIGHT IRRITABLE
11/30/83	9:22:42	0049225	207.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000637 SPECIES: D SEX: MALE GROUP: 5000 UL/KG

DATE	TIME	OBSERVATIONS		CLINICAL OBSERVATIONS
		WEIGHT	OPERATOR	
12/01/83	9:00:42	0069406		DEATH
11/30/83	14:30:42	0069406		MARKED INACTIVE, SLIGHT INCREASED SALIVATION, MODERATE DEPRESSED GRASPING REFLEX, MODERATE DEPRESSED RIGHTING REFLEX
11/30/83	12:09:56	0049225		MODERATE PILO ERECTION, MODERATE INACTIVE, MODERATE HUNCHED POSTURE, SLIGHT RED STAIN MOUTH
11/30/83	11:14:02	0049225		MODERATE PILO ERECTION, SLIGHT HUNCHED POSTURE, MODERATE RED STAIN MOUTH
11/30/83	9:24:06	0049225	231.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000644 SPECIES: D SEX: MALE GROUP: 5000 UL/KG

DATE	TIME	OBSERVATIONS		CLINICAL OBSERVATIONS
		WEIGHT	OPERATOR	
12/01/83	8:11:32	0035743		DEATH
11/30/83	14:33:10	0016654		MARKED INACTIVE, SLIGHT HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT CLEAR MATERIAL MOUTH
11/30/83	12:10:48	0049225		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MARKED INACTIVE, SLIGHT INCREASED SALIVATION
11/30/83	11:14:56	0069406		MODERATE INACTIVE, MODERATE PILO ERECTION, SLIGHT INCREASED SALIVATION, MODERATE CLEAR MATERIAL LEFT EYE
11/30/83	9:24:58	0049225	242.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000652 SPECIES: D SEX: MALE GROUP: 5000 UL/KG

DATE	TIME	OBSERVATIONS		CLINICAL OBSERVATIONS
		WEIGHT	OPERATOR	
12/01/83	8:14:34	0035743		DEATH
11/30/83	14:34:14	0016654		PROSTRATE
11/30/83	12:11:58	0049225		MARKED INACTIVE, MODERATE PILO ERECTION, SLIGHT INCREASED SALIVATION
11/30/83	11:16:26	0069406		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE INCREASED RESPIRATION DEPTH, MODERATE DECREASED RESPIRATION RATE, SLIGHT INCREASED SALIVATION
11/30/83	9:26:28	0049225	197.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000668				SPECIES: U		SEX: MALE		GROUP: 5000 UL/KG	
		OBSERVATIONS		WEIGHT					
DATE	TIME	OPERATOR	(GRAMS)						
12/14/83	8:16:04	0073522	298.0	NORMAL					
12/13/83	9:36:22	0049225		NORMAL					
12/12/83	4:32:04	0049225		SLIGHT RED STAIN NOSE					
12/11/83	8:05:10	0002605		NORMAL					
12/10/83	11:33:40	0002605		NORMAL					
12/09/83	9:41:56	0073522	500.0	NORMAL					
12/08/83	9:27:52	0073522		NORMAL					
12/07/83	9:55:10	0073522		NORMAL					
12/06/83	9:48:02	0073522	270.0	NORMAL					
12/05/83	9:30:44	0073522	260.0	NORMAL					
12/04/83	10:31:58	0053257		NORMAL					
12/03/83	9:12:38	0069406		NORMAL					
12/02/83	3:46:50	0035743	225.0	SLIGHT ORANGE RED STAIN EYE, MODERATE RED STAIN NOSE, MODERATE RED STAIN MOUTH, MODERATE YELLOW MATERIAL PERIANAL					
12/01/83	8:34:26	0035743		MODERATE YELLOW MATERIAL PERIANAL					
11/30/83	14:34:50	0016654		SLIGHT INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT TACHYPNEA, SLIGHT BROWN MATERIAL PERIANAL					
11/30/83	12:13:42	0069406		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE INACTIVE, SLIGHT IRRITABLE, SLIGHT RED STAIN MOUTH, MODERATE BROWN MATERIAL PERIANAL					
11/30/83	11:18:12	0049225		SLIGHT HUNCHED POSTURE, SLIGHT INACTIVE, MODERATE RED MOUTH STAIN, MODERATE BROWN MATERIAL PERIANAL					
11/30/83	9:27:44	0049225	239.0	* NO OBSERVATIONS RECORDED.					

ANIMAL ID: 83000669		SPECIES: D		SEX: MALE		GROUP: 5000 UL/KG	
		OBSERVATIONS		WEIGHT			
DATE	TIME	OPERATOR	(GRAMS)	CLINICAL OBSERVATIONS			
11/30/83	17:43:00	0017557		DEATH			
11/30/83	14:36:02	0016654		PROSTRATE			
11/30/83	12:15:36	0069406		MARKED INACTIVE, SLIGHT PILO ERECTION, MODERATE DECREASED RESPIRATION RATE, MODERATE INCREASED RESPIRATION DEPTH, SLIGHT INCREASED SALIVATION, MODERATE DEPRESSED RIGHTING REFLEX			
11/30/83	11:19:30	0049225		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INCREASED SALIVATION, MODERATE YELLOW STAIN PERIANAL, SLIGHT INACTIVE			
11/30/83	9:29:08	0049225	212.0	* NO OBSERVATIONS RECORDED.			

ANIMAL ID: 83000671 SPECIES: D SEX: MALE GROUP: 5000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:14:54	0035743	DEATH
11/30/83	14:36:24	0016654	MODERATE INACTIVE, SLIGHT DEPRESSED GRASPING REFLEX, SLIGHT RED STAIN MOUTH
11/30/83	12:10:00	0049225	MARKED INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE DEPRESSED GRASPING REFLEX
11/30/83	11:20:56	0049225	MODERATE INACTIVE, MODERATE PILO ERECTION, SLIGHT INCREASED SALIVATION, MARKED DEPRESSED GRASPING REFLEX
11/30/83	9:29:30	0049225	241.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000675 SPECIES: D SEX: MALE GROUP: 5000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:04:44	0035743	DEATH
11/30/83	14:36:18	0069406	MARKED INACTIVE, SLIGHT PILO ERECTION, MARKED INCREASED SALIVATION, MODERATE BROWN MATERIAL PERIANAL, MARKED DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	12:19:16	0049225	MODERATE INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION, SLIGHT DIARRHEA
11/30/83	11:22:58	0069406	MARKED INACTIVE, MODERATE HUNCHED POSTURE, MARKED INCREASED SALIVATION, MODERATE BROWN MATERIAL PERIANAL
11/30/83	9:31:16	0049225	228.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000681 SPECIES: D SEX: MALE GROUP: 5000 UL/KG
OBSERVATIONS

DATE	TIME	WEIGHT OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:05:42	0035743	DEATH
11/30/83	14:41:52	0016654	PROSTRATE
11/30/83	12:21:28	0049225	MODERATE INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION
11/30/83	11:24:28	0069406	MODERATE PILO ERECTION, MODERATE HUNCHED POSTURE, SLIGHT DIARRHEA
11/30/83	9:32:46	0049225	211.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 03000697		SPECIES: D		SEX: MALE		GROUP: 5000 UL/KG	
		OBSERVATIONS		WEIGHT		CLINICAL OBSERVATIONS	
DATE	TIME	OPERATOR	(GRAMS)				
12/14/83	8:16:58	0073522	299.0			SLIGHT RED STAIN NOSE	
12/13/83	9:36:46	0049225				NORMAL	
12/12/83	9:32:58	0049225				NORMAL	
12/11/83	8:05:46	0002605				NORMAL	
12/10/83	11:33:54	0002605				NORMAL	
12/09/83	9:02:40	0073522	299.0			NORMAL	
12/08/83	9:28:12	0073522				NORMAL	
12/07/83	9:55:36	0073522				NORMAL	
12/06/83	9:48:36	0073522	271.0			NORMAL	
12/05/83	9:31:16	0073522	269.0			NORMAL	
12/04/83	10:32:16	0053257				NORMAL	
12/03/83	9:12:50	0069406				NORMAL	
12/02/83	8:47:48	0035783	224.0			NORMAL	
12/01/83	8:40:02	0069406				MODERATE INACTIVE, MARKED PILO ERECTION, MARKED HUNCHED POSTURE, SLIGHT RED STAIN LEFT EYE, SLIGHT RED STAIN MOUTH, MARKED DEPRESSED GRASPING REFLEX, MODERATE DEPRESSED RIGHTING REFLEX, MARKED DEPRESSED PULL REFLEX	
11/30/83	14:40:26	0016654				MODERATE INACTIVE, SLIGHT PILO ERECTION, MODERATE DEPRESSED GRASPING REFLEX	
11/30/83	12:20:34	0049225				MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE TACHYPNEA	
11/30/83	11:25:56	0049225				MODERATE PILO ERECTION, MODERATE HUNCHED POSTURE, MODERATE INACTIVE	

ANIMAL ID: 83000840 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	17:45:18	0017557		DEATH
11/30/83	14:42:10	0069406		MARKED INACTIVE, SLIGHT PILO ERECTION, MODERATE CLEAR MATERIAL MOUTH, MODERATE DEPRESSED GRASPING REFLEX, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	12:23:18	0069406		MARKED INACTIVE, MODERATE DECREASED RESPIRATION RATE, MODERATE INCREASED RESPIRATION DEPTH, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	11:27:02	0049225		MARKED INACTIVE, SLIGHT PILO ERECTION, MODERATE HUNCHED POSTURE, SLIGHT INCREASED SALIVATION
11/30/83	9:30:20	0049225	231.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000843 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:12:06	0035743		DEATH
11/30/83	14:03:34	0016654		MARKED INACTIVE, MODERATE TWITCHING, MODERATE DEPRESSED GRASPING REFLEX, SLIGHT YELLOW STAIN MOUTH
11/30/83	12:24:50	0049225		MODERATE INACTIVE, SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT INCREASED SALIVATION
11/30/83	11:28:20	0069406		MARKED INACTIVE, SLIGHT INCREASED SALIVATION, SLIGHT HUNCHED POSTURE, SLIGHT IRRITABLE
11/30/83	9:37:14	0049225	207.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000846 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/02/83	8:30:36	0084799	217.0	DEATH
12/01/83	8:41:50	0069406		MARKED INACTIVE, MODERATE PILO ERECTION, SLIGHT RED STAIN EYE, MODERATE BROWN STAIN MOUTH, MARKED DEPRESSED PULL REFLEX, MODERATE DEPRESSED GRASPING REFLEX, MODERATE DEPRESSED RIGHTING REFLEX
11/30/83	14:44:58	0069406		MODERATE INACTIVE, SLIGHT ORANGE STAIN MOUTH, MODERATE DEPRESSED GRASPING REFLEX, SLIGHT DEPRESSED RIGHTING REFLEX
11/30/83	12:25:44	0049225		MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE IRRITABLE
11/30/83	11:29:20	0049225		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE INACTIVE, SLIGHT IRRITABLE
11/30/83	9:37:50	0049225	230.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83D00653 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	17:59:36	0017557	DEATH
11/30/83	18:46:50	0016654	PROSTRATE
11/30/83	12:26:50	0069406	MODERATE INACTIVE, MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, MODERATE INCREASED SALIVATION, MODERATE DEPRESSED RIGHTING REFLEX
11/30/83	11:50:04	0069406	MODERATE HUNCHED POSTURE, MODERATE INACTIVE, MODERATE IRRITABLE, SLIGHT INCREASED SALIVATION
11/30/83	9:39:04	0049225	245.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83D00654 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	17:56:58	0017557	DEATH
11/30/83	14:50:26	0016654	PROSTRATE
11/30/83	11:30:54	0049225	MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE, MODERATE IRRITABLE, MODERATE INCREASED SALIVATION
11/30/83	9:39:52	0049225	195.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83D00660 SPECIES: D SEX: MALE GROUP: 6000 UL/KG
OBSERVATIONS WEIGHT

DATE	TIME	OPERATOR (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	17:41:06	0017557	DEATH
11/30/83	18:47:18	0016654	PROSTRATE
11/30/83	12:27:46	0069406	MARKED INACTIVE, MARKED DECREASED RESPIRATION RATE, MARKED INCREASED RESPIRATION DEPTH, MARKED DEPRESSED RIGHTING REFLEX
11/30/83	11:51:40	0049225	MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE
11/30/83	9:41:04	0049225	233.0 * NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000664 SPECIES: D SEX: MALE GROUP: 6000 UL/KG

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:05:24	0035743		DEATH
11/30/83	14:47:38	0016654		MODERATE INACTIVE, SLIGHT CLEAR STAIN MOUTH, SLIGHT PILO ERECTION
11/30/83	12:29:16	0049225		SLIGHT HUNCHED POSTURE
11/30/83	11:52:14	0049225		SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION
11/30/83	9:42:12	0049225	214.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000684 SPECIES: D SEX: MALE GROUP: 6000 UL/KG

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
11/30/83	17:56:24	0017557		DEATH
11/30/83	14:48:50	0016654		PROSTRATE
11/30/83	12:50:06	0049225		MARKED INACTIVE, MODERATE DEPRESSED GRASPING REFLEX
11/30/83	11:32:56	0049225		SLIGHT HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT INACTIVE
11/30/83	9:45:46	0049225	219.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 83000685 SPECIES: D SEX: MALE GROUP: 6000 UL/KG

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/01/83	8:13:24	0035743		DEATH
11/30/83	14:49:46	0016654		PROSTRATE
11/30/83	12:31:34	0049225		MODERATE HUNCHED POSTURE, SLIGHT PILO ERECTION, SLIGHT IRRITABLE, SLIGHT INCREASED SALIVATION, SLIGHT INACTIVE
11/30/83	11:33:30	0049225		MODERATE HUNCHED POSTURE, MODERATE PILO ERECTION, SLIGHT INACTIVE, SLIGHT INCREASED SALIVATION
11/30/83	9:46:20	0049225	225.0	* NO OBSERVATIONS RECORDED.

ANIMAL ID: 03000696 SPECIES: D SEX: MALE GROUP: C. CONTROL

DATE	TIME	OPERATION	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/14/83	8:05:08	0073522	289.0	SLIGHT RED STAIN NOSE
12/13/83	9:30:06	0049225		NORMAL
12/12/83	9:24:32	0049225		NORMAL
12/11/83	8:01:46	0002605		NORMAL
12/10/83	11:29:34	0002605		NORMAL
12/09/83	9:34:14	0073522	293.0	NORMAL
12/08/83	9:22:54	0073522		NORMAL
12/07/83	9:49:50	0073522		NORMAL
12/06/83	9:39:24	0073522	270.0	NORMAL
12/05/83	9:18:56	0073522	271.0	NORMAL
12/04/83	10:27:34	0053257		NORMAL
12/03/83	9:03:50	0069406		NORMAL
12/02/83	8:33:18	0035743	249.0	NORMAL
12/01/83	8:23:46	0035743		NORMAL
11/30/83	14:51:18	0016654		NORMAL
11/30/83	12:34:08	0049225		NORMAL

ANIMAL ID: 03000669 SPECIES: D SEX: MALE GROUP: C. CONTROL

DATE	TIME	OPERATION	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
12/14/83	8:02:54	0073522	287.0	NORMAL
12/13/83	9:29:40	0049225		NORMAL
12/12/83	9:24:04	0049225		NORMAL
12/11/83	8:01:24	0002605		NORMAL
12/10/83	11:29:16	0002605		NORMAL
12/09/83	9:53:50	0073522	296.0	NORMAL
12/08/83	9:22:28	0073522		NORMAL
12/07/83	9:49:28	0073522		NORMAL
12/06/83	9:38:58	0073522	275.0	NORMAL
12/05/83	9:17:50	0073522	269.0	NORMAL
12/04/83	10:27:20	0053257		NORMAL
12/03/83	9:03:40	0069406		NORMAL
12/02/83	8:51:58	0035743	250.0	NORMAL
12/01/83	8:23:59	0035743		NORMAL
11/30/83	14:51:00	0016654		NORMAL
11/30/83	12:33:56	0049225		NORMAL

ANIMAL ID: 83000678 SPECIES: D SEX: MALE GROUP: C. CONTROL

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/14/83	8:01:56	0073522	269.0	NORMAL	
12/15/83	9:29:12	0049225		NORMAL	
12/12/83	9:21:32	0049225		NORMAL	
12/11/83	8:01:08	0002605		NORMAL	
12/10/83	11:24:52	0002605		NORMAL	
12/09/83	9:32:50	0073522	288.0	NORMAL	
12/08/83	9:22:10	0073522		NORMAL	
12/07/83	9:49:02	0073522		NORMAL	
12/06/83	9:57:52	0073522	270.0	NORMAL	
12/05/83	9:17:02	0073522	266.0	NORMAL	
12/04/83	10:27:00	0053257		NORMAL	
12/03/83	9:03:26	0069406		NORMAL	
12/02/83	8:29:48	0035743	253.0	NORMAL	
12/01/83	8:23:26	0035743		NORMAL	
11/30/83	14:50:48	0016654		NORMAL	
11/30/83	12:33:44	0049225		NORMAL	

ANIMAL ID: 83000639 SPECIES: D SEX: MALE GROUP: C. CONTROL

DATE	TIME	OBSERVATIONS		WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
		OPERATOR	WEIGHT		
12/14/83	8:00:30	0073522	283.0	NORMAL	
12/13/83	9:28:44	0049225		NORMAL	
12/12/83	9:02:04	0049225		NORMAL	
12/11/83	8:00:36	0002605		NORMAL	
12/10/83	11:28:30	0002605		NORMAL	
12/09/83	9:32:12	0073522	290.0	NORMAL	
12/08/83	9:21:44	0073522		NORMAL	
12/07/83	9:48:34	0073522		NORMAL	
12/06/83	9:57:00	0073522	273.0	NORMAL	
12/05/83	9:15:52	0073522	269.0	NORMAL	
12/04/83	10:28:36	0054257		NORMAL	
12/03/83	9:02:58	0069406		NORMAL	
12/02/83	8:28:04	0035743	240.0	NORMAL	
12/01/83	8:23:08	0035743		NORMAL	
11/30/83	14:51:50	0016654		NORMAL	
11/30/83	12:33:20	0049225		NORMAL	

ANIMAL ID: 03000634	SPECIES: U	SEX: MALE	GROUP: C. CONTROL
DATE	TIME	WEIGHT OBSERVATIONS	CLINICAL OBSERVATIONS
12/19/83	7:57:18	0073522	* NO OBSERVATIONS RECORDED.
12/19/83	7:54:36	0073522	NORMAL
12/13/83	9:28:08	0049225	NORMAL
12/12/83	9:00:30	0049225	NORMAL
12/11/83	7:59:14	0002605	NORMAL
12/10/83	11:27:42	0002605	NORMAL
12/09/83	9:31:28	0073522	NORMAL
12/08/83	9:21:00	0073522	NORMAL
12/07/83	9:40:02	0073522	NORMAL
12/06/83	9:55:56	0073522	NORMAL
12/05/83	9:14:36	0073522	NORMAL
12/04/83	10:26:04	0051257	NORMAL
12/03/83	9:02:40	0069406	NORMAL
12/02/83	8:26:20	0055743	NORMAL
12/01/83	8:22:54	0035743	NORMAL
11/30/83	14:52:06	0016654	NORMAL
11/30/83	12:33:02	0049225	NORMAL

Individual Body Weights in Grams
1 g/kg

Males

Animal No.	Receipt	Dosing	Day 3	Day 6	Day 9	Termination Day 14	Weight* Change
83D00641	147	206	237	253	271	262	56
83D00649	160	238	279	304	326	315	77
83D00655	160	232	273	292	311	295	63
83D00656	153	242	281	303	323	312	70
83D00665	132	206	243	259	276	265	59
83D00667	154	226	266	289	304	294	68
83D00686	157	247	292	312	332	318	71
83D00690	154	241	285	303	323	312	71
3D00691	135	204	244	263	292	272	68
Mean	150.2	226.9	266.7	286.4	306.4	293.9	67
Standard Deviation	10.3	17.2	20.4	22.3	22.4	22.4	6.6
Std. Error of Means	3.4	5.8	6.8	7.4	7.5	7.5	2.2

*Dosing to termination

Individual Body Weights in Grams
2 g/kg

Males

Animal No.	Receipt	Dosing	Day 2	Day 6	Day 9	Termination Day 14	Weight* Change
83D00647	162	228	238	273	294	288	60
83D00648	149	219	242	275	295	288	69
84D00651	145	190	193	230	247	233	43
84D00657	164	236	237	275	303	289	53
83D00662	149	242	238	283	305	309	67
83D00666	157	232	Dead	-	-	-	-
83D00680	162	214	192	213	231	239	25
83D00683	150	213	230	260	287	278	65
83D00687	166	252	Dead	-	-	-	-
Mean	156.0	225.1	224.3	258.4	280.3	274.9	54.6
Standard Deviation	7.8	18.5	22.0	26.6	29.2	28.2	15.9
Std. Error of Means	2.6	6.2	8.3	10.1	11.0	10.6	6.0

*Dosing to termination

Individual Body Weights in Grams
3 g/kg

Males

Animal No.	Receipt	Dosing	Day 2	Day 6	Day 9	Termination Day 14	Weight* Change
83D00633	165	233	Dead				
83D00635	141	215	225	258	275	273	58
83D00636	129	198	Dead				
83D00645	145	237	Dead				
83D00658	159	230	Misdose				
83D00673	160	248	238	270	288	281	33
83D00676	150	218	Dead				
83D00688	167	237	Dead				
83D00695	163	249	241	290	305	308	59
Mean	153.2	229.4	234.7	272.7	289.3	287.3	50.0
Standard Deviation	12.8	16.5	8.5	16.2	15.0	18.3	14.7
Std. Error of Means	4.3	5.5	4.9	9.3	8.7	10.6	8.5

*Dosing to termination.

Individual Body Weights in Grams
4 g/kg

Males

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
83D00642	162	246	Dead	-	-	-	-
83D00659	159	225	Dead	-	-	-	-
83D00663	162	232	Dead	-	-	-	-
83D00672	155	222	Dead	-	-	-	-
83D00674	137	205	Dead	-	-	-	-
83D00677	147	219	Misdose	-	-	-	-
83D00679	157	229	Dead	-	-	-	-
83D00682	160	236	Dead	-	-	-	-
83D00694	142	207	Dead	-	-	-	-
Mean	153.4	224.6	-	-	-	-	-
Standard Deviation	9.2	13.2	-	-	-	-	-
Std. Error of Means	3.1	4.4	-	-	-	-	-

*Dosing to termination.

Individual Body Weights in Grams
5 g/kg

Males

Animal No.	Receipt	Dosing	Day 2	Day 6	Day 9	Termination Day 14	Weight* Change
84D00637	153	231	Dead	-	-	-	-
84D00644	159	242	Dead	-	-	-	-
84D00652	134	197	Dead	-	-	-	-
84D00668	158	239	225	270	300	298	59
84D00669	134	212	Dead	-	-	-	-
84D00671	170	241	Dead	-	-	-	-
84D00675	147	228	Dead	-	-	-	-
84D00681	161	211	Dead	-	-	-	-
84D00697	148	232	224	271	299	299	67
Mean	151.6	225.9	224.5	270.5	299.5	298.5	63.0
Standard Deviation	12.1	15.7	0.7	0.7	0.7	0.7	5.76
Std. Error of Means	4.1	5.2	0.5	0.5	0.5	0.5	4.0

*Dosing to termination.

Individual Body Weights in Grams
6 g/kg

Males

Animal No.	keceipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
83D00640	163	231	Dead	-	-	-	-
83D00643	140	207	Dead	-	-	-	-
83D00646	155	230	Dead	-	-	-	-
83D00653	164	245	Dead	-	-	-	-
83D00654	146	195	Dead	-	-	-	-
83D00660	163	233	Dead	-	-	-	-
83D00664	137	214	Dead	-	-	-	-
83D00684	153	219	Dead	-	-	-	-
83D00685	148	225	Dead	-	-	-	-
Mean	152.1	222.1	-	-	-	-	-
Standard Deviation	10.1	15.1	-	-	-	-	-
Std. Error of Means	3.4	5.0	-	-	-	-	-

*Dosing to termination.

Individual Body Weights in Grams
Cage Control

Male

Animal No.	Receipt	Dosing	Day 2	Day 6	Day 9	Termination Day 14	Weight* Change
83D00634	161	-	258	290	309	305	-
83D00639	149	-	240	273	290	283	-
83D00678	153	-	253	270	288	269	-
83D00689	164	-	250	275	296	287	-
83D00696	152	-	249	270	293	289	-
Mean	155.8	-	250.6	275.6	295.2	286.6	-
Standard Deviation	6.4	-	6.6	8.3	8.3	12.9	-
S.d. Error of Means	2.9	-	3.0	3.7	3.7	5.8	-

* Dosing to termination.

Morgan--80

Individual Body Weights in Grams
1.78 g/kg

Females

Animal No.	Receipt	Dosing	Day 7	Termination Day 14	Weight* Change
84D00918	134	155	209	204	49
84D00930	125	140	180	168	28
84D00933	128	145	192	191	46
84D00934	156	170	Dead	-	-
84D00938	151	167	Dead	-	-
84D00940	150	160	209	201	41
84D00943	157	175	211	201	26
84D00949	156	166	196	185	19
84D00951	149	163	205	187	24
84D00969	161	176	Dead	-	-
Mean	146.7	161.7	200.3	191.0	33.3
Standard Deviation	12.9	12.0	11.5	12.6	11.8
Std. Error of Means	4.1	3.8	4.3	4.8	4.5

*Dosing to termination.

Individual Body Weights in Grams
2.37 g/kg

Females

Animal No.	Receipt	Dosing	Day 7	Termination Day 14	Weight* Change
84D00917	155	174	210	206	32
84D00919	150	163	196	188	25
84D00926	149	167	Dead	-	-
84D00946	151	165	Dead	-	-
84D00947	136	148	188	169	21
84D00948	164	176	219	209	33
84D00952	157	185	Dead	-	-
84D00955	136	150	Dead	-	-
84D00964	158	173	Dead	-	-
84D00968	152	169	Dead	-	-
Mean	150.8	167.0	203.3	193.0	27.8
Standard Deviation	9.0	11.4	13.9	18.5	5.7
Std. Error of Means	2.8	3.6	6.9	9.3	2.9

*Dosing to termination.

Individual Body Weights in Grams
3.16 g/kg

Females

Animal No.	Receipt	Dosing	Day 7	Termination Day 14	Weight* Change
84D00920	153	167	198	196	29
84D00922	144	167	Dead	-	-
84D00931	148	163	Dead	-	-
84D00944	157	171	Dead	-	-
84D00945	157	173	Dead	-	-
84D00950	164	185	Dead	-	-
84D00956	159	162	Dead	-	-
84D00957	156	165	Dead	-	-
84D00960	162	181	238	234	53
84D00962	127	139	Dead	-	-
Mean	152.7	167.3	218.0	215.0	41.0
Standard Deviation	10.9	12.5	28.3	26.9	17.0
Std. Error of Means	3.4	3.9	20.0	19.0	12.0

*Dosing to termination.

Individual Body Weights in Grams
4.22 g/kg

Females

Animal No.	Receipt	Dosing	Day 7	Termination Day 14	Weight* Change
84D00928	170	185	232	222	37
84D00929	165	188	Dead	-	-
84D00935	159	177	Dead	-	-
84D00936	153	171	Dead	-	-
84D00937	154	172	Dead	-	-
84D00941	157	176	Dead	-	-
84D00958	154	174	214	206	32
84D00965	147	170	Dead	-	-
84D00966	154	166	Dead	-	-
84D00967	179	202	Dead	-	-
Mean	159.2	178.1	223.0	214.0	34.5
Standard Deviation	9.5	10.7	12.7	11.3	3.5
Std. Error of Means	3.0	3.4	9.0	8.0	2.5

*Dosing to termination.

Morgan--84

Individual Body Weights in Grams
5.62 g/kg

Females

Animal No.	Receipt	Dosing	Day 7	Termination Day 14	Weight* Change
84D00921	150	165	Dead	-	-
84D00923	150	161	Dead	-	-
84D00924	162	174	Dead	-	-
84D00925	160	177	Dead	-	-
84D00927	155	171	Dead	-	-
4D00932	170	188	Dead	-	-
84D00939	130	142	Dead	-	-
84D00942	158	171	Dead	-	-
84D00961	152	163	Dead	-	-
84D00963	160	177	Dead	-	-
Mean	154.7	168.9	-	-	-
Standard Deviation	10.6	12.3	-	-	-
Std. Error of Means	3.4	3.9	-	-	-

*Dosing to termination.

Pathology Report
Combined GLP Study 83016 and 84016
Oral Lethal Dose (LD50)

ID#: GLP Study 83016 and 84016.

Substance: Oral lethal Dose (LD50) Test in Rats of (E) 1, 2, 3, 4, - Tetrahydro - 6 - Methyl - 1 - (2-Methyl - 1 - Oxy - 2-Butenyl) Quinoline (CHR5)

History: Study 83016 was done on male Sprague Dawley Rats. Study 84016 was done on female Sprague Dawley Rats. Both studies were done IAW LAIR SOP OP-STX-36.

DOSE TABLE - Table 1

Male Rat			Female Rat		
Group#	#Animals	Dose (gram/kg)	Group#	#Animals	Dose (gram/kg)
Control	5	0			
1	9	2	1	10	1.78
2	7	3	2	10	2.37
3	8	4	3	10	3.16
4	9	5	4	10	4.22
5	9	6	5	10	5.62
6	9	1			

Gross Pathology Findings:

Male Rats: Nine rats died within the first 12 hours after dosing. Twenty additional deaths occurred in the second 12 hours. One more rat died during the next 24 hour period.

Female Rats: Eleven rats died within the first 12 hours after dosing. Twenty-three additional rats died within the second 12 hours. One more rat died within the next 24 hour period.

The remaining male and female rats survived until they were killed at the conclusion of the study.

Gross Lesions Males: Multiple petechial hemorrhages were present in the glandular portion of the stomach in most of the rats that died naturally. Focal red areas were

Pathology Report
GLP Study 83016 and 84016

present on the scrotum (0.5 to 1.0 cm in diameter) of many of the rats. Wet muzzle and lacrimal secretions were present in all animals that died naturally and were considered to be the result of nonspecific agonal events. No drug related lesions were present in the males killed at the end of the study.

Gross Lesions Female: Most of the females that died had 1 - 2 mm, multifocal petechial hemorrhages in the surface of the glandular mucosa. Black tarry mucoid material was present in the small bowel of two rats. The lung pleural surface was reddened in several rats and one rat had dark brown fluid in its urinary bladder. No drug related lesions were present in the females killed at the end of the study.

Incidence Table - Table #2

	Male								Female				
Group#	Control	1	2	3	4	5	6		1	2	3	4	5
Rats/Group	5	9	7	8	9	9	9		10	10	10	10	10
Deaths	0	2	4	8	7	9	0		3	6	8	8	10
Petechiae Stomach	0	2	4	8	7	7	0		2	5	7	7	9
Sm. Intestine Mucoid Melena	0	0	0	0	0	0	0		1	0	1	0	0
Lung Discoloration	0	0	0	0	0	0	0		0	2	2	5	3
Scrotal Reddening	0	1	4	8	6	5	0		NA	NA	NA	NA	NA
Dilated Renal Pelvis	1	2	1	0	1	0	1		0	0	0	0	0
Brown Fluid Bladder	0	0	0	0	0	0	0		0	0	0	1	0

Conclusions:

Drug related deaths of both males and females followed a dose response curve. Petechial hemorrhages were drug related and only found in the gastric mucosa of animals that died. Scrotal reddening of males was also drug related. It is possible that the mucoid melena, brown urinary fluid and reddened lungs seen in the females are

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GLP Study 83016 and 84016

drug related; however, it is likely that they are unrelated incidental findings.
Dilation of the renal pelves seen in the males are undoubtedly incidental unrelated findings.



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